```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  JUL 20   Powerful new interactive analysis and visualization software,
                   STN AnaVist, now available
 NEWS  4  AUG 11   STN AnaVist workshops to be held in North America
 NEWS  5  AUG 30   CA/CAplus -Increased access to 19th century research documents
 NEWS  6  AUG 30   CASREACT - Enhanced with displayable reaction conditions
 NEWS  7  SEP 09   ACD predicted properties enhanced in REGISTRY/ZREGISTRY
 NEWS  8  OCT 03   MATHDI removed from STN
 NEWS  9  OCT 04   CA/CAplus-Canadian Intellectual Property Office (CIPO) added
                   to core patent offices
 NEWS 10  OCT 06   STN AnaVist workshops to be held in North America
 NEWS 11  OCT 13   New CAS Information Use Policies Effective October 17, 2005
 NEWS 12  OCT 17   STN(R) AnaVist(TM), Version 1.01, allows the export/download
                   of CAplus documents for use in third-party analysis and
                   visualization tools
 NEWS 13  OCT 27   Free KWIC format extended in full-text databases
 NEWS 14  OCT 27   DIOGENES content streamlined
 NEWS 15  OCT 27   EPFULL enhanced with additional content
 NEWS 16  NOV 14   CA/CAplus - Expanded coverage of German academic research

 NEWS EXPRESS  JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 06:15:59 ON 15 NOV 2005

=> fil reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.63       0.63

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```

STRUCTURE FILE UPDATES: 13 NOV 2005 HIGHEST RN 867336-65-0
DICTIONARY FILE UPDATES: 13 NOV 2005 HIGHEST RN 867336-65-0

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

```
=> s 3593.8.3/rid
L1         3000 3593.8.3/RID

=> s 591.49.51/rid
L2        96357 591.49.51/RID

=> s l1 (p) l2
L3            2 L1 (P) L2

=> d scan

L3   2 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   Benzo[lmn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetrone, 2,7-bis(5,6,7,8-
     tetrahydro-1-naphthalenyl)- (9CI)
MF   C34 H26 N2 O4
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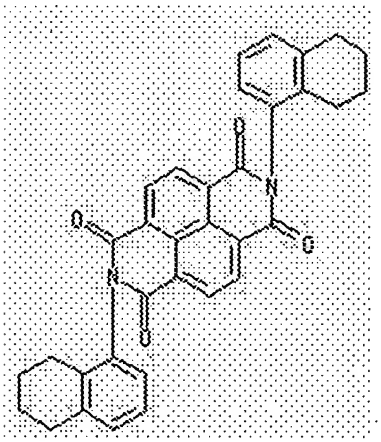
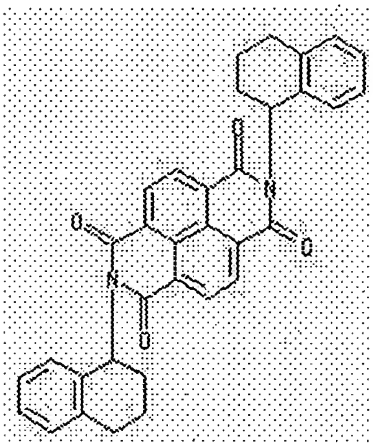


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L3 2 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzo[lmn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetrone, 2,7-bis(1,2,3,4-tetrahydro-1-naphthalenyl)- (9CI)
MF C34 H26 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> fil ca; s l3

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.06	10.69

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FILE COVERS 1907 - 10 Nov 2005 VOL 143 ISS 21
FILE LAST UPDATED: 10 Nov 2005 (20051110/ED)

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This file contains CAS Registry Numbers for easy and accurate

substance identification.

L4 2 L3

=> d fbib 1-2

L4 ANSWER 1 OF 2 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 143:68288 CA
TI Phenylazomethylene-cyclohexadienone derivatives comprising electron withdrawing group and electrophotographic photoreceptor comprising the derivatives
IN Kim, Beom-Jun; Yokota, Saburo; Yon, Kyung-Yol; Lee, Hwan-Koo; Kim, Seung-Ju
PA Samsung Electronics Co., Ltd., S. Korea
SO U.S. Pat. Appl. Publ., 32 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 2005130051	A1	20050616	US 2004-964740		20041015
				KR 2003-91437	A	20031215
	JP 2005179358	A2	20050707	JP 2004-363689		20041215
				KR 2003-91437	A	20031215

L4 ANSWER 2 OF 2 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 142:123039 CA
TI Naphthalenetetracarboxylic acid diimide derivatives and electrophotographic photoconductive material having the same
IN Kim, Seung-Ju; Yokota, Saburo; Yon, Kyung-Yol; Lee, Hwan-Koo; Kim, Beom-Jun
PA Samsung Electronics Co., Ltd., S. Korea
SO U.S. Pat. Appl. Publ., 11 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 2005003286	A1	20050106	US 2004-768083		20040202
				KR 2003-45323	A	20030704
	JP 2005029559	A2	20050203	JP 2004-107376		20040331
				KR 2003-45323	A	20030704

OS MARPAT 142:123039

=> fil uspatfull; s l3

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.96	13.65

FILE 'USPATFULL' ENTERED AT 06:19:49 ON 15 NOV 2005
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 10 Nov 2005 (20051110/PD)
FILE LAST UPDATED: 10 Nov 2005 (20051110/ED)
HIGHEST GRANTED PATENT NUMBER: US6964061

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HIGHEST APPLICATION PUBLICATION NUMBER: US2005251889
CA INDEXING IS CURRENT THROUGH 10 Nov 2005 (20051110/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 10 Nov 2005 (20051110/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2005

>>>  USPAT2 is now available.  USPATFULL contains full text of the     <<<
>>>  original, i.e., the earliest published granted patents or         <<<
>>>  applications.  USPAT2 contains full text of the latest US         <<<
>>>  publications, starting in 2001, for the inventions covered in     <<<
>>>  USPATFULL.  A USPATFULL record contains not only the original     <<<
>>>  published document but also a list of any subsequent              <<<
>>>  publications.  The publication number, patent kind code, and      <<<
>>>  publication date for all the US publications for an invention     <<<
>>>  are displayed in the PI (Patent Information) field of USPATFULL   <<<
>>>  records and may be searched in standard search fields, e.g., /PN, <<<
>>>  /PK, etc.                                                         <<<

>>>  USPATFULL and USPAT2 can be accessed and searched together        <<<
>>>  through the new cluster USPATALL.  Type FILE USPATALL to          <<<
>>>  enter this cluster.                                               <<<
>>>                                                                    <<<
>>>  Use USPATALL when searching terms such as patent assignees,       <<<
>>>  classifications, or claims, that may potentially change from      <<<
>>>  the earliest to the latest publication.                           <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.


L5            2 L3

=> d pn 1-2

L5   ANSWER 1 OF 2  USPATFULL on STN
PI     US 2005130051      A1   20050616

L5   ANSWER 2 OF 2  USPATFULL on STN
PI     US 2005003286      A1   20050106


=> d his

     (FILE 'HOME' ENTERED AT 06:15:59 ON 15 NOV 2005)

     FILE 'REGISTRY' ENTERED AT 06:17:31 ON 15 NOV 2005
L1          3000 S 3593.8.3/RID
L2         96357 S 591.49.51/RID
L3             2 S L1 (P) L2

     FILE 'CA' ENTERED AT 06:18:47 ON 15 NOV 2005
L4             2 S L3

     FILE 'USPATFULL' ENTERED AT 06:19:49 ON 15 NOV 2005
L5             2 S L3

=> s 591.45/rid
'RID' IS NOT A VALID FIELD CODE
L6             0 591.45/RID

=> fil reg
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
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                                                    ENTRY     SESSION
FULL ESTIMATED COST                                  6.16       19.81

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STRUCTURE FILE UPDATES:   13 NOV 2005  HIGHEST RN 867336-65-0
DICTIONARY FILE UPDATES:  13 NOV 2005  HIGHEST RN 867336-65-0

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s 591.45/rid
L7            78 591.45/RID

=> s l1 (p) l7 not l3
              0 L1 (P) L7
L8            0 L1 (P) L7 NOT L3

=> s 591.49/rid
L9       848138 591.49/RID

=> s l1 (p) l9 not l3
             50 L1 (P) L9
L10          48 L1 (P) L9 NOT L3

=> d scan

L10  48 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   Benzo[lmn][3,8]phenanthroline-2(1H)-heptanoic acid, 3,6,7,8-tetrahydro-
     1,3,6,8-tetraoxo-7-phenyl-, 2,2'-[(9-oxo-9H-fluorene-2,7-diyl)bis[azo(2-
     hydroxy-1,3-naphthalenediyl)carbonyl]]dihydrazide (9CI)
MF   C89 H64 N12 O15
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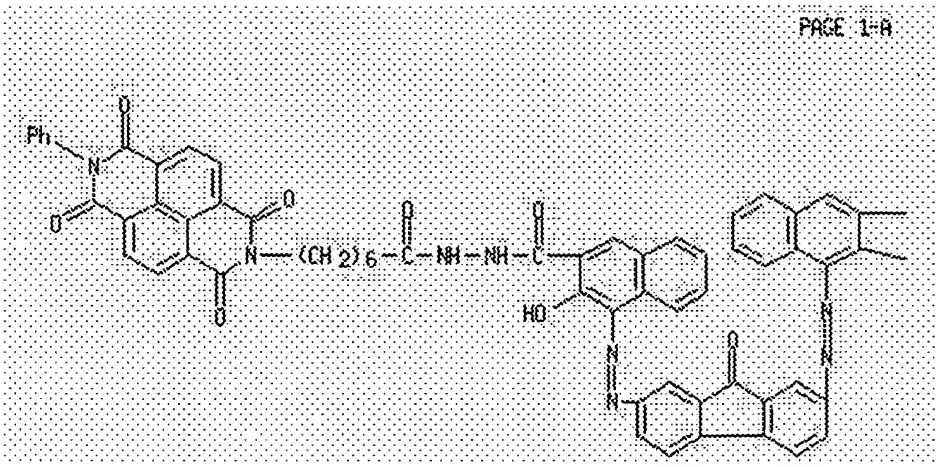
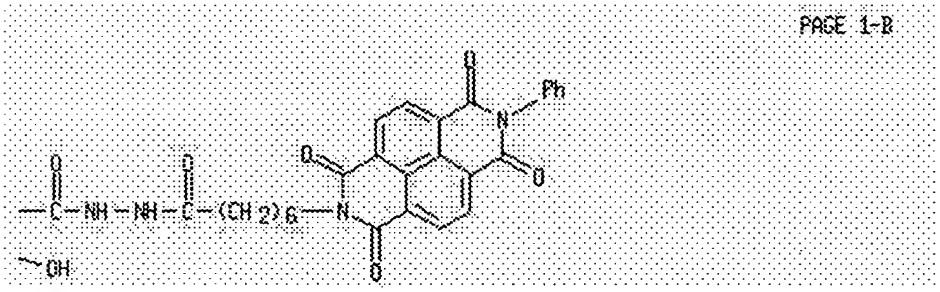
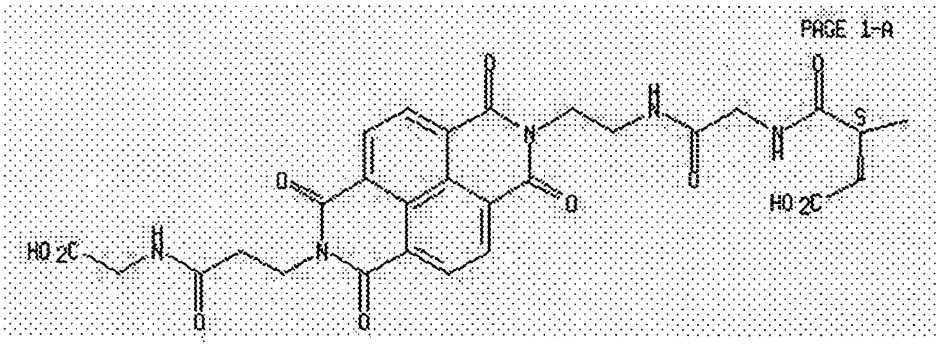


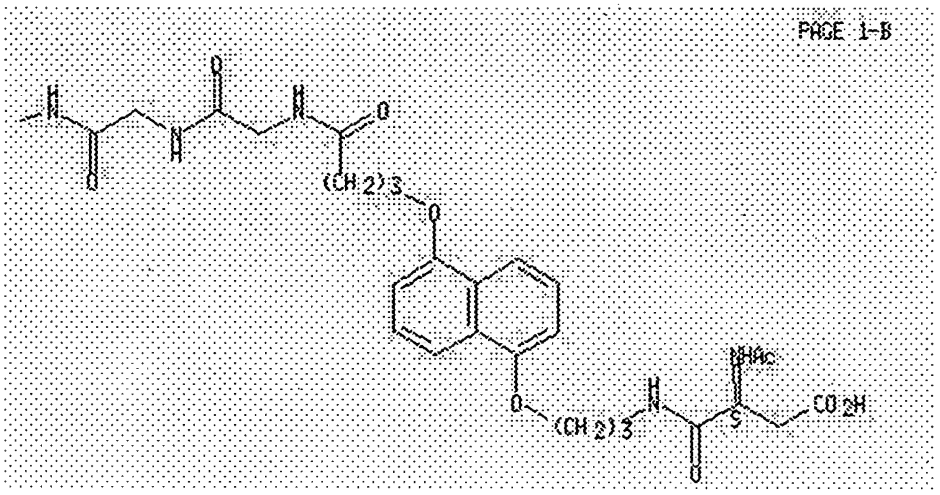


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L10 48 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Glycine, N-acetyl-L-α-aspartyl-4-[[5-(3-aminopropoxy)-1-naphthalenyl]oxy]butanoylglycylglycyl-L-α-aspartylglycyl-7-(2-aminoethyl)-3,6,7,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2(1H)-propanoyl- (9CI)
SQL 8
MF C54 H58 N10 O20

Absolute stereochemistry.

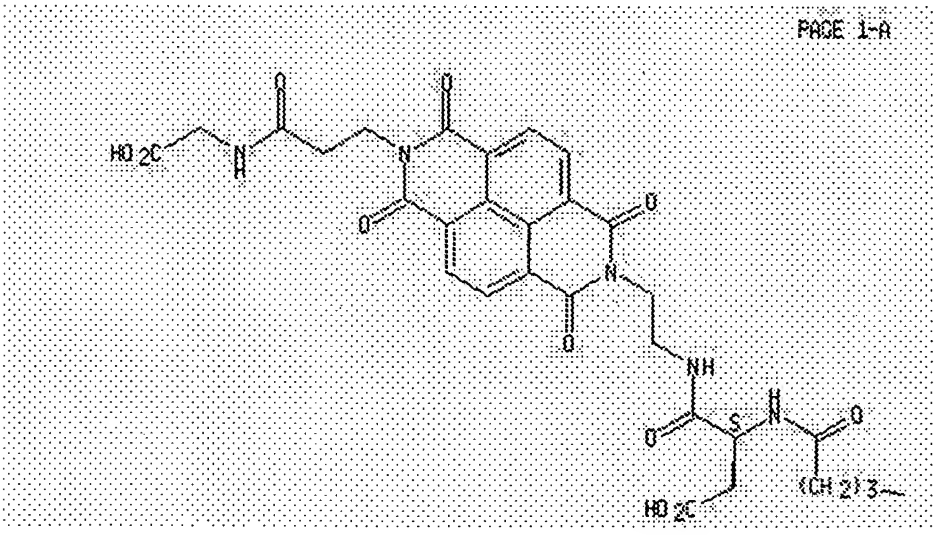


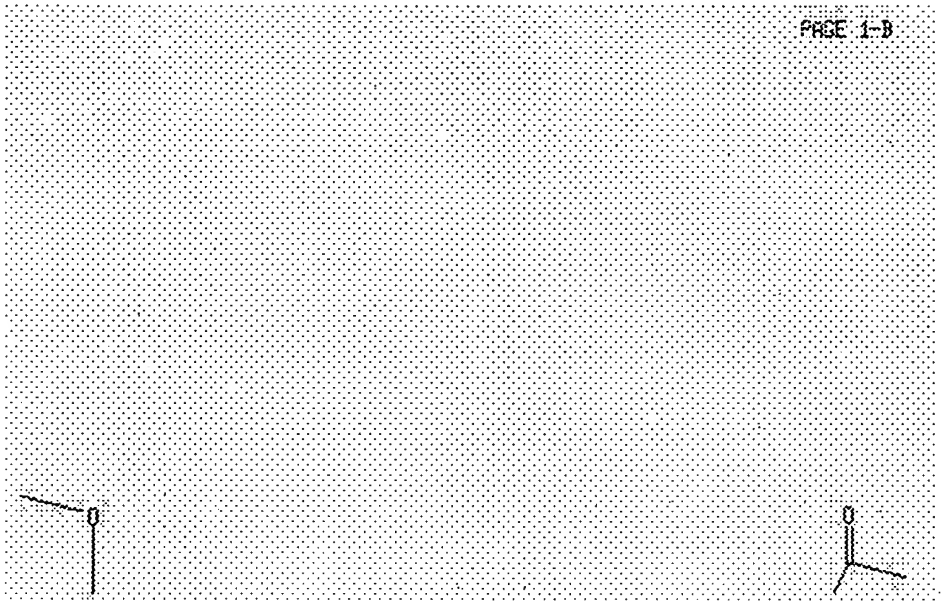


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L10 48 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Glycine, N-(3-carboxy-1-oxopropyl)-L-α-asparty1-7-(2-aminoethyl)-3,6,7,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2(1H)-propanoyl-4-[[5-(3-aminopropoxy)-1-naphthalenyl]oxy]butanoyl-L-α-asparty1-7-(2-aminoethyl)-3,6,7,8-tetrahydro-1,3,6,8-tetraoxobenzo[lmn][3,8]phenanthroline-2(1H)-propanoyl- (9CI)
SQL 6
MF C69 H64 N10 O24

Absolute stereochemistry.




PAGE 1-B
O
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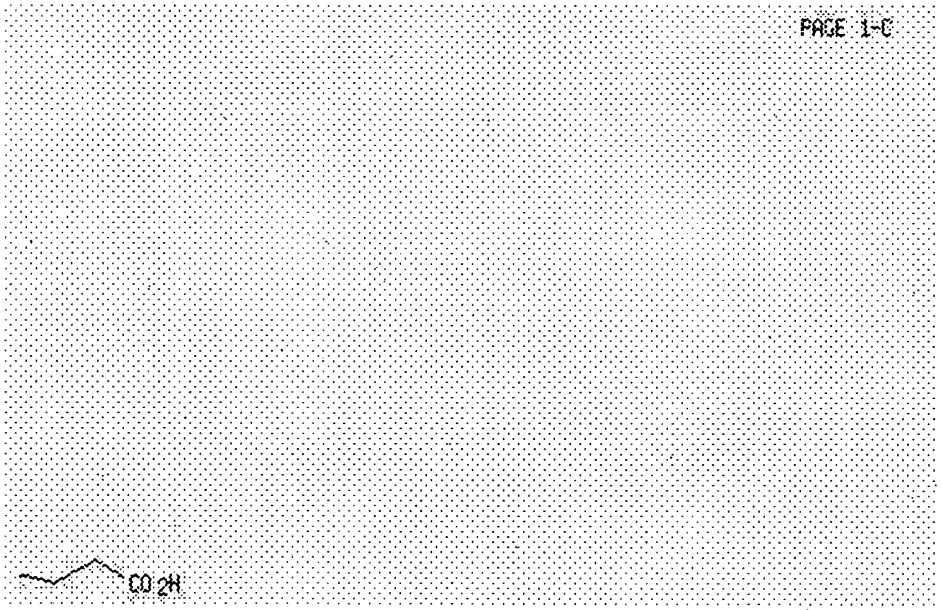
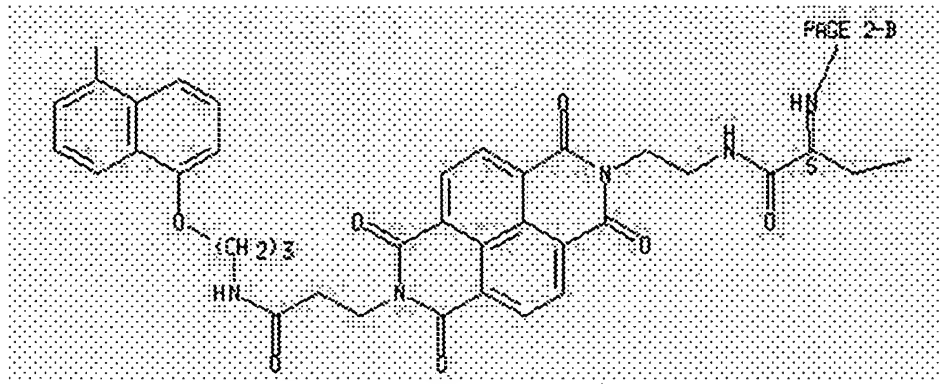
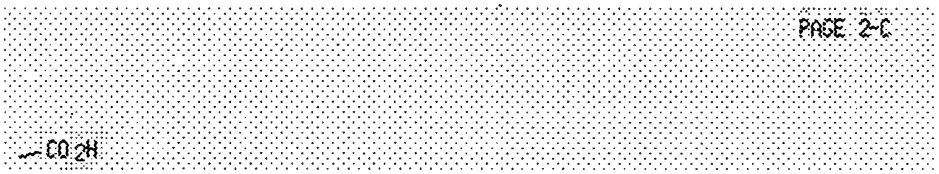

PAGE 1-C
CO2H





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> fil stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.92	30.73

FILE 'STNGUIDE' ENTERED AT 06:24:17 ON 15 NOV 2005

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Nov 11, 2005 (20051111/UP).

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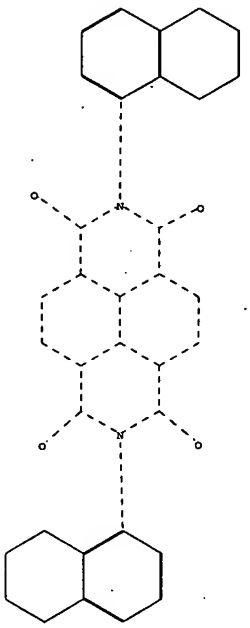
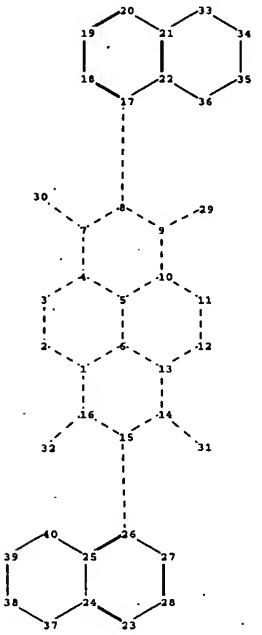
Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	655	(430/78).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/15 07:00
L2	58	l1 and (diimide or naphthalenetetracarboxylic$10)	US-PGPUB; USPAT	ADJ	ON	2005/11/15 07:16
L3	147	(546/66).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/15 08:12
L4	248	(430/58.5).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/15 08:12

C:\Program Files\Stnexp\Queries\768083.str



MARPAT Structure



chain nodes :
29 30 31 32
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
26 27 28 33 34 35 36 37 38 39 40
chain bonds :
7-30 8-17 9-29 14-31 15-26 16-32
ring bonds :
1-2 1-6 1-16 2-3 3-4 4-5 4-7 5-6 5-10 6-13 7-8 8-9 9-10 10-11 11-12 12-13
13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22 21-33 22-36 23-24 23-28
24-25 24-37 25-26 25-40 26-27 27-28 33-34 34-35 35-36 37-38 38-39 39-40
exact/norm bonds :
1-2 1-6 1-16 2-3 3-4 4-5 4-7 5-6 5-10 6-13 7-8 7-30 8-9 8-17 9-10 9-29
10-11 11-12 12-13 13-14 14-15 14-31 15-16 15-26 16-32 21-33 22-36 24-37 25-40
33-34 34-35 35-36 37-38 38-39 39-40
normalized bonds :
17-18 17-22 18-19 19-20 20-21 21-22 23-24 23-28 24-25 25-26 26-27 27-28

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:CLASS 30:CLASS 31:CLASS
32:CLASS 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom

```
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 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  JUL 20  Powerful new interactive analysis and visualization software,
                  STN AnaVist, now available
 NEWS  4  AUG 11  STN AnaVist workshops to be held in North America
 NEWS  5  AUG 30  CA/CAplus -Increased access to 19th century research documents
 NEWS  6  AUG 30  CASREACT - Enhanced with displayable reaction conditions
 NEWS  7  SEP 09  ACD predicted properties enhanced in REGISTRY/ZREGISTRY
 NEWS  8  OCT 03  MATHDI removed from STN
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                  to core patent offices
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 NEWS 11  OCT 13  New CAS Information Use Policies Effective October 17, 2005
 NEWS 12  OCT 17  STN(R) AnaVist(TM), Version 1.01, allows the export/download
                  of CAplus documents for use in third-party analysis and
                  visualization tools
 NEWS 13  OCT 27  Free KWIC format extended in full-text databases
 NEWS 14  OCT 27  DIOGENES content streamlined
 NEWS 15  OCT 27  EPFULL enhanced with additional content
 NEWS 16  NOV 14  CA/CAplus - Expanded coverage of German academic research

 NEWS EXPRESS  JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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 NEWS WWW      CAS World Wide Web Site (general information)

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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:09:19 ON 15 NOV 2005

=> fil marpat
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'MARPAT' ENTERED AT 09:09:33 ON 15 NOV 2005
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FILE CONTENT: 1988-PRESENT (VOL 143 ISS 18)(20051113/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
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(COVERAGE TO THESE DATES IS NOT COMPLETE):

US    6924313 02 AUG 2005
DE 1020040544 04 AUG 2005
EP    1568694 31 AUG 2005
JP 2005213127 11 AUG 2005
WO 2005090358 29 SEP 2005

Expanded G-group definition display now available.

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=>
Uploading structure

L1      STRUCTURE UPLOADED

=> s sam l1
SAMPLE SEARCH INITIATED 09:11:41 FILE 'MARPAT'
SAMPLE SCREEN SEARCH COMPLETED -       74 TO ITERATE

100.0% PROCESSED       74 ITERATIONS                              1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          965 TO     1995
PROJECTED ANSWERS:               1 TO       80

L2            1 SEA SSS SAM L1

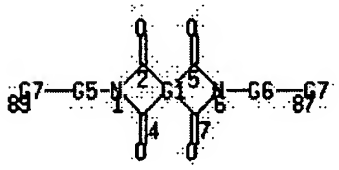
=> d scan

L2   1 ANSWERS   MARPAT  COPYRIGHT 2005 ACS on STN
IC   ICM  C07D209-48
     ICS  C07D487-04; C09K011-06; H05B033-14; H05B033-22
CC   73-11 (Optical, Electron, and Mass Spectroscopy and Other Related
     Properties)
     Section cross-reference(s): 27
TI   Bisimide derivatives bearing bisarylamino groups, their preparation, and
     hole-transporting materials, green-emitting phosphors, and organic
     electroluminescent device
ST   arylamino bisimide deriv amorphous heat resistance; org electroluminescent
     device bisarylamino bisimide deriv; hole transporting material
     bisarylamino bisimide deriv; green emitting phosphor bisarylamino bisimide
     deriv
IT   Phosphors
        (green-emitting; prepn. of bisimide derivs. bearing bisarylamino groups
        for hole-transporting materials, green-emitting phosphor, and org. EL
        device)
IT   Electroluminescent devices
        (org.; prepn. of bisimide derivs. bearing bisarylamino groups for
        hole-transporting materials, green-emitting phosphor, and org. EL
        device)
IT   691883-38-2P   691883-40-6P   691883-41-7P   691883-42-8P   691883-43-9P
     691883-44-0P   691883-45-1P   691883-46-2P   691883-47-3P   691883-48-4P
     691883-49-5P   691883-50-8P   691883-51-9P
     RL: DEV (Device component use); IMF (Industrial manufacture); PREP
     (Preparation); USES (Uses)
        (prepn. of bisimide derivs. bearing bisarylamino groups for
        hole-transporting materials, green-emitting phosphor, and org. EL
        device)
```

IT 233591-43-0P 259169-65-8P 691883-27-9P 691883-29-1P 691883-30-4P
691883-32-6P 691883-35-9P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of bisimide derivs. bearing bisarylamino groups for hole-transporting materials, green-emitting phosphor, and org. EL device)

IT 89-32-7, Pyromellitic dianhydride 585-79-5, 3-Bromonitrobenzene
586-78-7, 4-Bromonitrobenzene 1107-00-2, 4,4'-(Hexafluoroisopropylidene)diphthalic anhydride 1823-59-2 2420-87-3, 4,4'-Biphthalic anhydride 2421-28-5, 3,3',4,4'-Benzophenonetetracarboxylic acid dianhydride 2540-99-0, 4,4'-Sulfonyldiphthalic anhydride 28320-33-4 38103-06-9 500717-23-7 672289-02-0 691883-28-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of bisimide derivs. bearing bisarylamino groups for hole-transporting materials, green-emitting phosphor, and org. EL device)

MSTR 1



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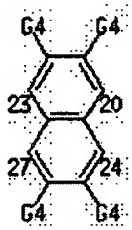
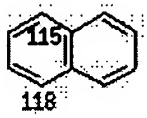
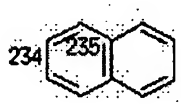


G5 = 115-89 118-1



G6 = 235-6 234-87



Patent location: claim 1
Note: additional substitution also claimed

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ALL ANSWERS HAVE BEEN SCANNED

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FULL SEARCH INITIATED 09:14:42 FILE 'MARPAT'
FULL SCREEN SEARCH COMPLETED -      1689 TO ITERATE

100.0% PROCESSED     1689 ITERATIONS                                  10 ANSWERS
SEARCH TIME: 00.00.04

L3            10 SEA SSS FUL L1

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'HITSTR' IS NOT A VALID FORMAT FOR FILE 'MARPAT'

The following are valid formats:

MSTR ----- All Markush structure(s) and related text information
MSTR(n) -- Markush structure(n) and related text information
IDE ------ AN and MSTR

ABS ------ AB
ALL ------ BIB, AB, IND, RE, and MSTR
APPS ----- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN ------ List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND ------ Indexing Data
IPC ------ International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ------ CC, SX, TI, ST, IT, and FQHIT
SCAN ----- CC, SX, TI, ST, IT, and FQHIT (random display,
           no answer numbers)
STD ------ BIB, IPC, and NCL (standard patent information)

IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD ----- STD, indented with text labels
OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations


HIT ------ Fields containing hit text terms and the Markush
           structures containing the query structure
FHIT ----- Fields containing the first hit text terms and the first
           Markush structures containing the query structure
QHIT ----- Fields containing query focus hit text terms and the
           Markush structures containing the query structure
FQHIT ---- Fields containing the first query focus hit text terms and
           the first Markush structures containing the query structure
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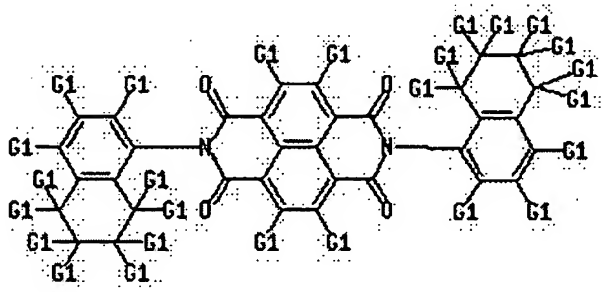
To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter "HELP DFIELDS" at an arrow prompt (=>). Examples of formats include: "TI"; "TI,MSTR,ABS"; "BIB,ST"; "TI,IND"; "TI,SO". You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, FHIT, HIT, FQHIT, or QHIT) may be used with the DISPLAY ACC command to display the record for a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):bib mstr

L3 ANSWER 1 OF 10 MARPAT COPYRIGHT 2005 ACS on STN
Full Text
AN 142:123039 MARPAT
TI Naphthalenetetracarboxylic acid diimide derivatives and electrophotographic photoconductive material having the same
IN Kim, Seung-Ju; Yokota, Saburo; Yon, Kyung-Yol; Lee, Hwan-Koo; Kim, Beom-Jun
PA Samsung Electronics Co., Ltd., S. Korea
SO U.S. Pat. Appl. Publ., 11 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005003286	A1	20050106	US 2004-768083	20040202
	JP 2005029559	A2	20050203	JP 2004-107376	20040331
PRAI	KR 2003-45323		20030704		

MSTR 1



G1 = H / F / Cl / Br / I / alkyl <containing 1-20 C> (opt. substd. by 1 or more G4) / alkoxy <containing 1-20 C> (opt. substd. by 1 or more G4) / aryl <containing 6-30 C> (opt. substd. by 1 or more G3) / alkyl <containing 1 or more C> (substd. by 1 or more G2)

G2 = R / aryl <containing 6-30 C> (opt. substd. by 1 or more G3) / (Specifically claimed: alkyl (opt. substd.) / aryl (opt. substd.) / Br / Cl / F / I / alkoxy (opt. substd.))

G3 = R / (Specifically claimed: alkyl (opt. substd.) / alkoxy (opt. substd.) / NO2 / F / Cl / Br / I / aryl (opt. substd.))

G4 = R / (Specifically claimed: alkyl (opt. substd.) / aryl (opt. substd.) / Br / Cl / F / I / alkoxy (opt. substd.))

Patent location: claim 1

L3 ANSWER 2 OF 10 MARPAT COPYRIGHT 2005 ACS on STN
Full Text
AN 142:30001 MARPAT
TI Deep-UV anti-reflective resist compositions
IN Minsek, David W.; Nawrocki, Daniel J.
PA Microchem Corp., USA
SO U.S., 10 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6824952	B1	20041130	US 2001-951718	20010913

PRAI US 2001-951718 20010913

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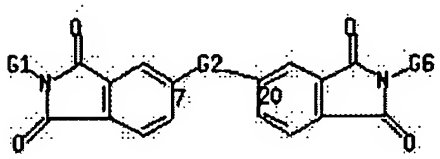
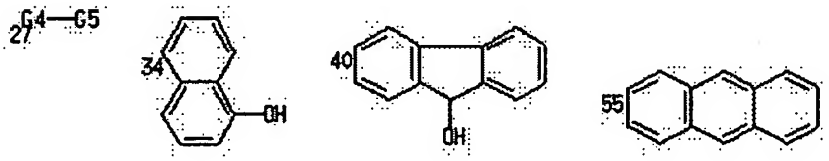
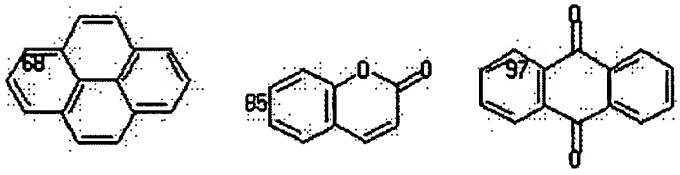
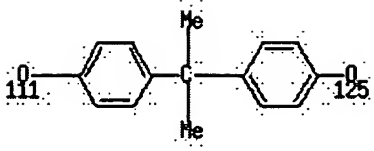


G1 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 / 85 / 97)

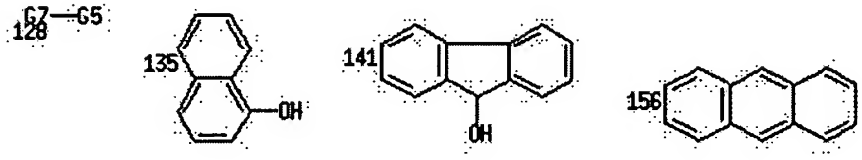


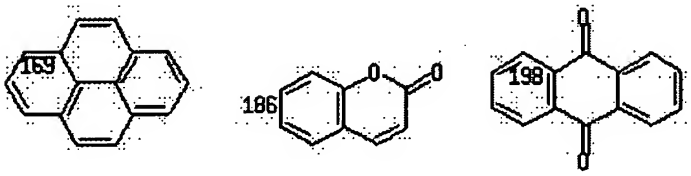


G2 = arylene (opt. substd.) /
carbon chain (opt. substd.) / carbocycle <non-aromatic> (opt. substd.) / C(O) / bond / O / S / SO2 /
(Specifically claimed: 111-7 125-20)



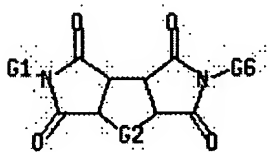
G3 = OH / CO2H / R
G4 = phenylene (opt. substd.)
G5 = CO2H / OH
G6 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
169 / 186 / 198)



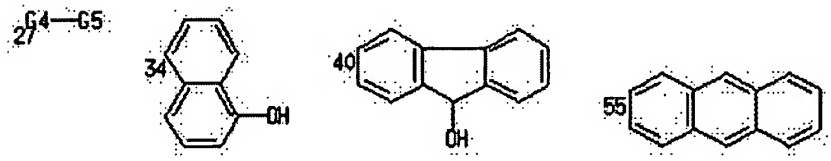


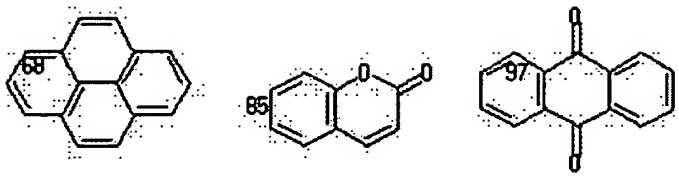
G7 = phenylene (opt. substd.)
Patent location: claim 1

MSTR 2

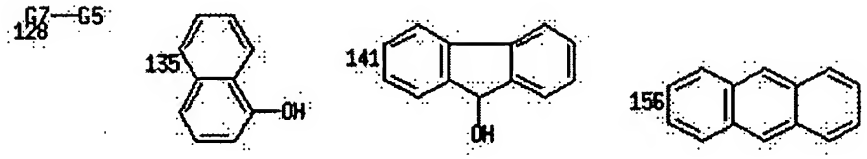


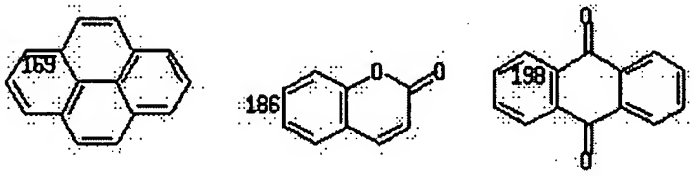
G1 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
85 / 97)





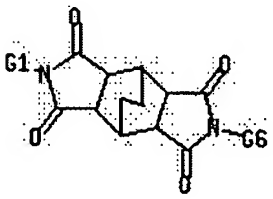
G2 = CH2 / O
G3 = OH / CO2H / R
G4 = phenylene (opt. substd.)
G5 = CO2H / OH
G6 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 / 169 / 186 / 198)



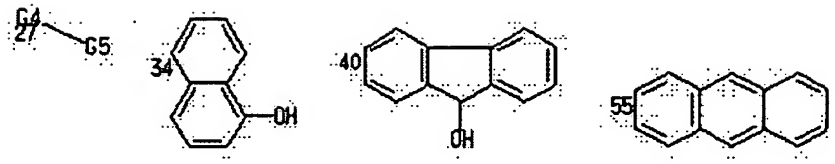


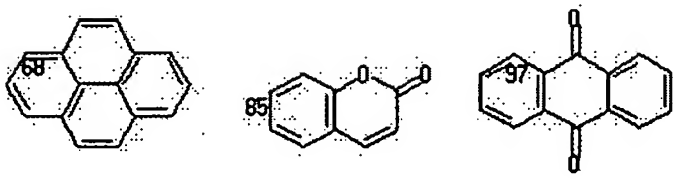
G7 = phenylene (opt. substd.)
Patent location: claim 1

MSTR 3

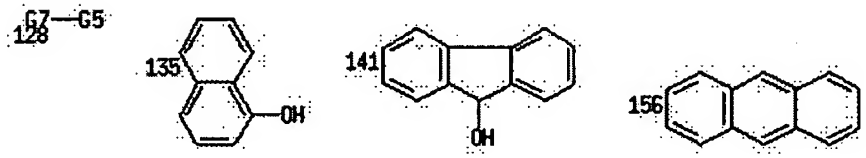


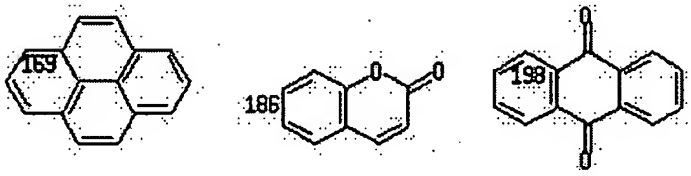
G1 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 / 85 / 97)





G3 = OH / CO2H / R
G4 = phenylene (opt. substd.)
G5 = CO2H / OH
G6 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
169 / 186 / 198)





G7 = phenylene (opt. substd.)
Patent location: claim 1

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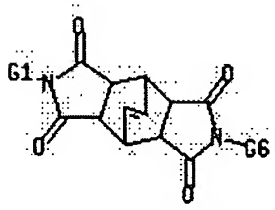
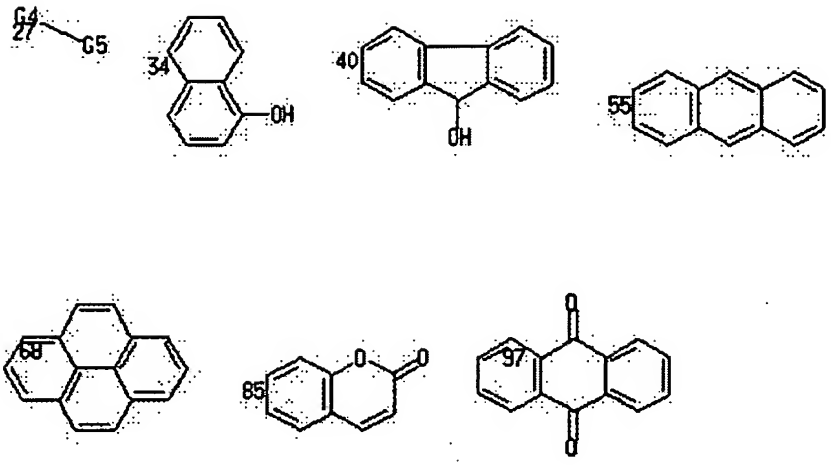
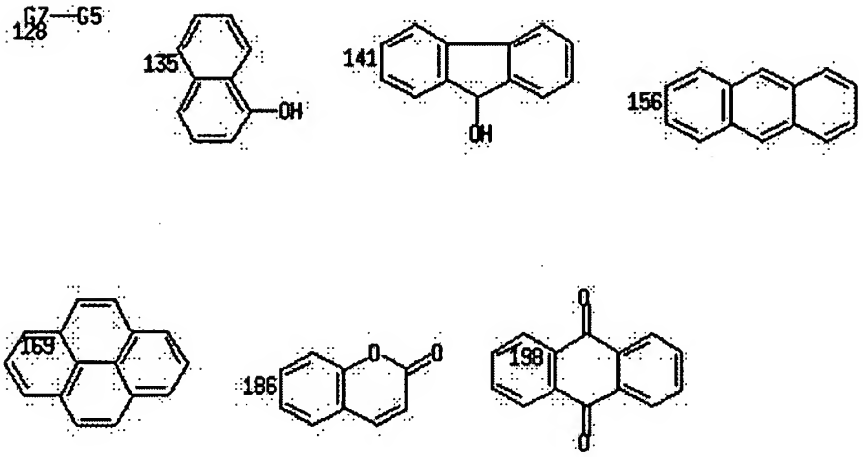


G1 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /

85 / 97)

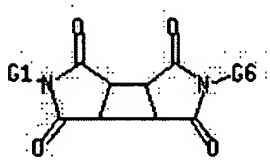


G3 = OH / CO2H / R
G4 = phenylene (opt. substd.)
G5 = CO2H / OH
G6 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
169 / 186 / 198)

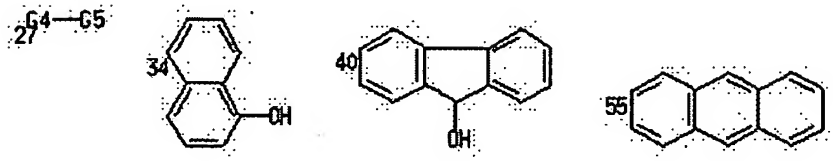


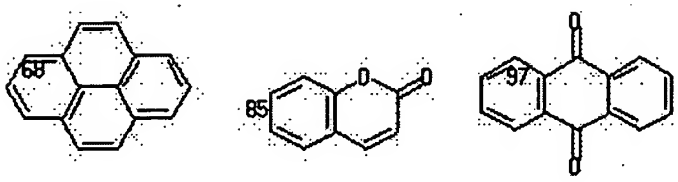
G7 = phenylene (opt. substd.)
Patent location: claim 1

MSTR 5

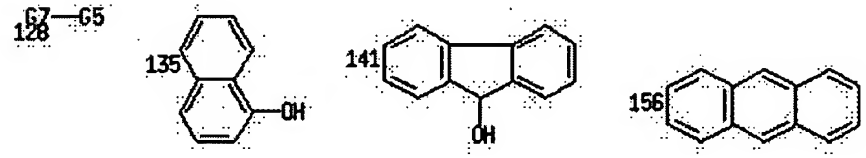


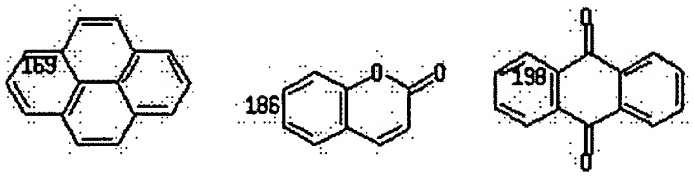
G1 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
85 / 97)





G3 = OH / CO2H / R
G4 = phenylene (opt. substd.)
G5 = CO2H / OH
G6 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
169 / 186 / 198)





G7 = phenylene (opt. substd.)
Patent location: claim 1

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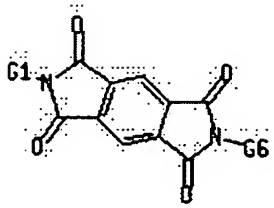
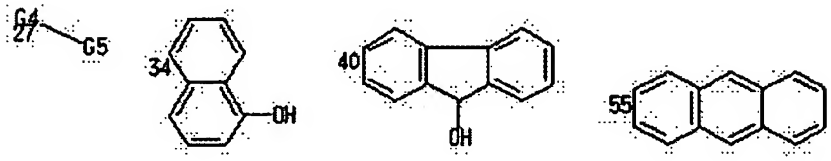
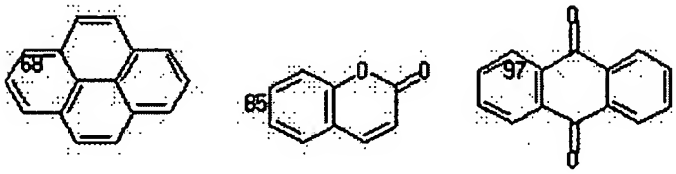
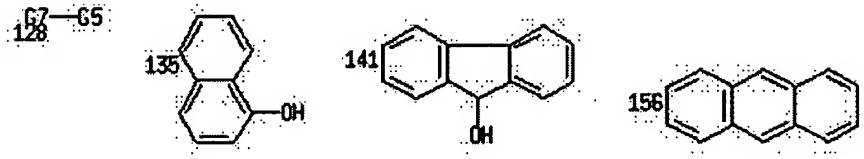


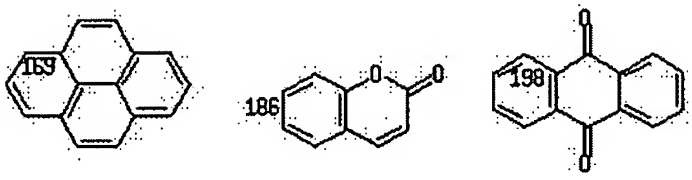
G1 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 / 85 / 97)





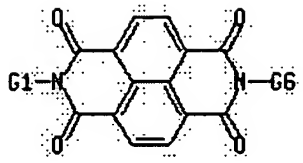
G3 = OH / CO2H / R
G4 = phenylene (opt. substd.)
G5 = CO2H / OH
G6 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 / 169 / 186 / 198)



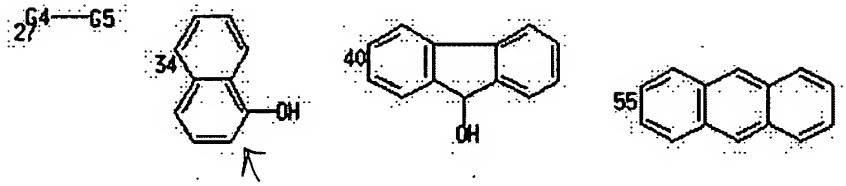


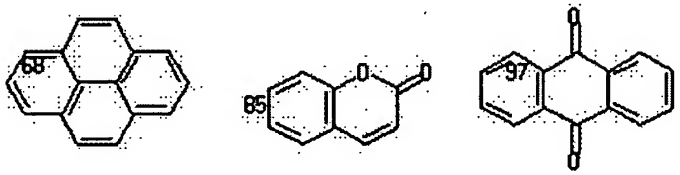
G7 = phenylene (opt. substd.)
Patent location: claim 1

MSTR 7

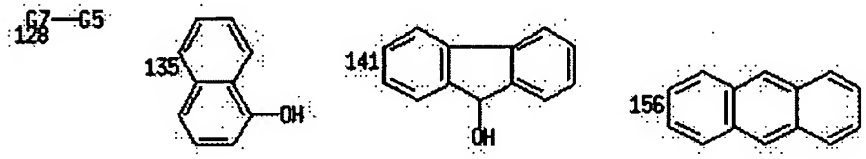


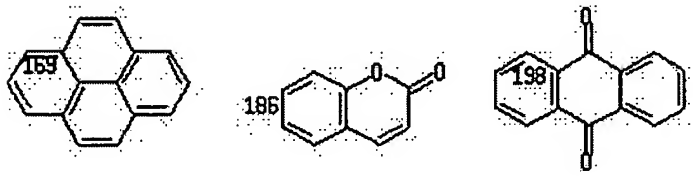
G1 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 27 / **34** / 40 / 2-naphthyl / 55 / 68 / 85 / 97)





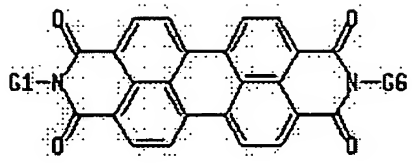
G3 = OH / CO2H / R
G4 = phenylene (opt. substd.)
G5 = CO2H / OH
G6 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 128 / **135** / 141 / 2-naphthyl / 156 / 169 / 186 / 198)



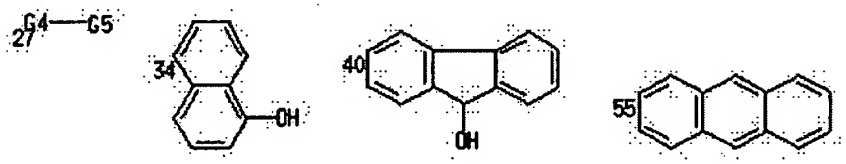


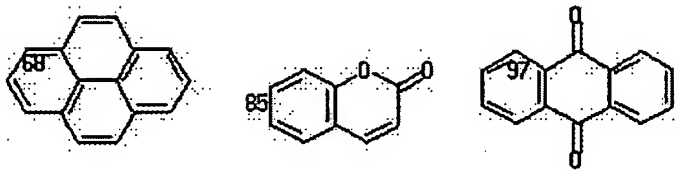
G7 = phenylene (opt. substd.)
Patent location: claim 1

MSTR 8

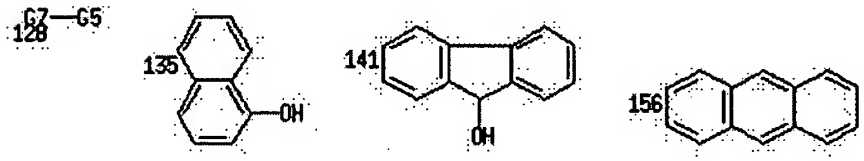


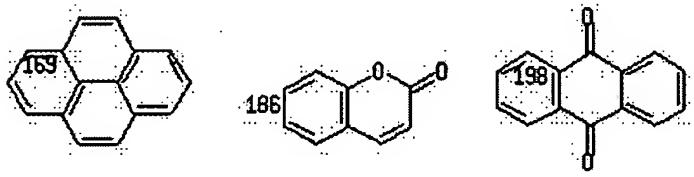
G1 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 /
85 / 97)





G3 = OH / CO2H / R
G4 = phenylene (opt. substd.)
G5 = CO2H / OH
G6 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 /
169 / 186 / 198)

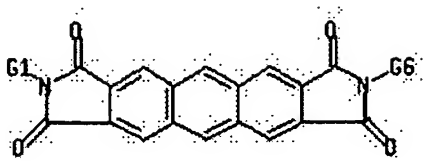




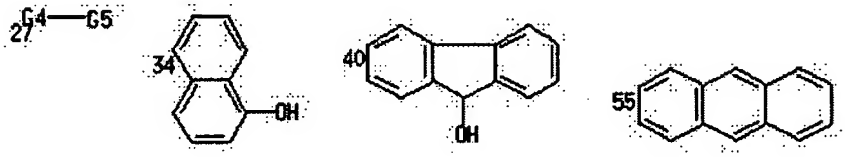
G7 = phenylene (opt. substd.)

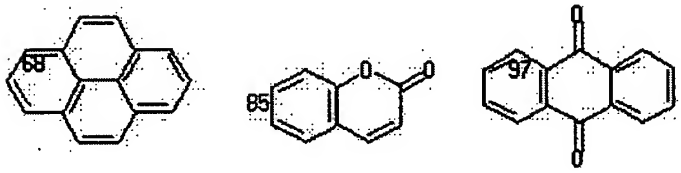
Patent location: claim 1

MSTR 9

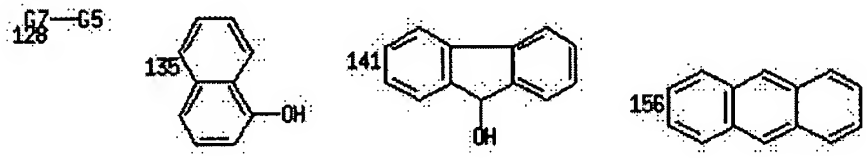


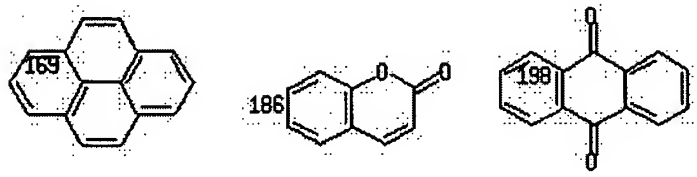
G1 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 27 / 34 / 40 / 2-naphthyl / 55 / 68 / 85 / 97)





G3 = OH / CO2H / R
G4 = phenylene (opt. substd.)
G5 = CO2H / OH
G6 = aryl (opt. substd. by 1 or more G3) /
(Specifically claimed: 128 / 135 / 141 / 2-naphthyl / 156 / 169 / 186 / 198)





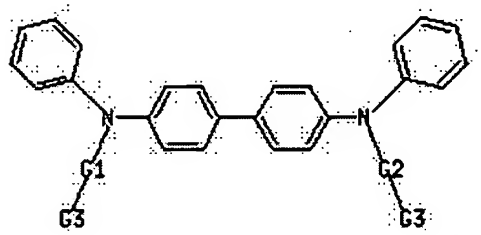
G7 = phenylene (opt. substd.)
Patent location: claim 1

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 10 MARPAT COPYRIGHT 2005 ACS on STN
Full Text
AN 141:340349 MARPAT
TI Electrophotographic photoconductor
IN Belknap, Nancy L.; Chen, Cindy C.; Zhang, Lanhui; Ioannidis, Andronique; Duff, James M.; Graham, John F.; Bender, Timothy P.
PA Xerox Corporation, USA
SO U.S. Pat. Appl. Publ., 10 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

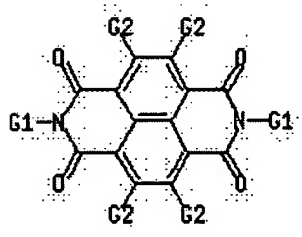
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004197686	A1	20041007	US 2003-408201	20030404
	US 6858363	B2	20050222		
	JP 2004310102	A2	20041104	JP 2004-110676	20040405
PRAI	US 2003-408201		20030404		

MSTR 1



G1 = phenylene
G2 = phenylene
G3 = alkyl (opt. substd.) / halo /
(Specifically claimed: Me / Cl)
Patent location: claim 30

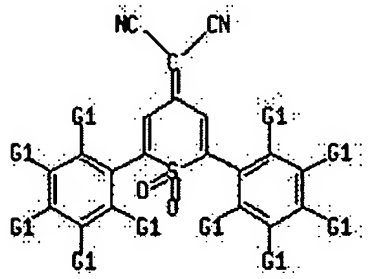
MSTR 2



G1 = H / alkyl <containing 1-50 C> (opt. substd.) /
alkoxy <containing 1-50 C> / cycloalkyl <containing 3-50 C>
(opt. substd.) / aryl (opt. substd.) / Ph / **naphthyl** /

anthracenyl / halo / (Examples: Cl / Me)
G2 = H / alkyl (opt. substd.) / alkoxy / cycloalkyl / aryl / Ph / naphthyl / anthracenyl / halo / (Examples: Cl / Me)
Patent location: claim 38
Note: also includes broader disclosure

MSTR 3



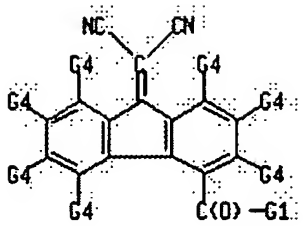
G1 = H / alkyl <containing 1-40 C> / alkoxy <containing 1-40 C> / halo / Ph (opt. substd. by G2) / aryl (opt. substd.) / naphthyl / anthracenyl / halo / (Examples: Cl / Me)
G2 = alkyl <containing up to 34 C> / alkoxy <containing up to 34 C>
Patent location: claim 28
Note: also includes a broader disclosure

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

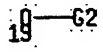
L3 ANSWER 4 OF 10 MARPAT COPYRIGHT 2005 ACS on STN
Full Text
AN 141:322546 MARPAT
TI Electrophotographic photoconductor
IN Ioannidis, Andronique; Belknap, Nancy L.; Chen, Cindy C.; Zhang, Lanhui; Bender, Timothy P.; Graham, John F.; Hor, Ah-Mee; Duff, James M.
PA Xerox Corporation, USA
SO Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1465019	A2	20041006	EP 2004-8236	20040405
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
US 2004197685	A1	20041007	US 2003-408204	20030404
CA 2462226	AA	20041004	CA 2004-2462226	20040329
JP 2004310089	A2	20041104	JP 2004-102526	20040331
BR 2004000914	A	20050111	BR 2004-914	20040331
PRAI US 2003-408204	20030404			

MSTR 1

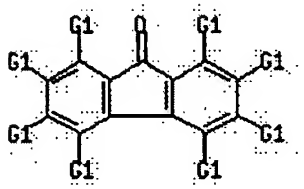


G1 = OH / 19



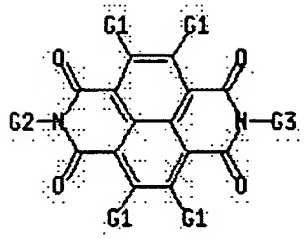
G2 = alkyl (opt. substd.) / alkoxy (opt. substd.) / aryl (opt. substd.) / halo / Ph (opt. substd. by 1 or more G3) / naphthyl / anthracenyl / (Specifically claimed: Me / Et)
G3 = R / alkyl <containing 1-34 C> / alkoxy <containing 1-34 C>
G4 = H / alkyl (opt. substd.) / alkoxy (opt. substd.) / aryl (opt. substd.) / halo / Ph (opt. substd. by 1 or more G3) / naphthyl / anthracenyl / (Specifically claimed: Me / Et)
Patent location: claim 1
Note: also includes broader disclosure
Note: also includes a broader disclosure

MSTR 2



G1 = H / alkyl (opt. substd.) / alkoxy (opt. substd.) / aryl (opt. substd.) / halo / 2 or more NO2 / Ph (opt. substd. by 1 or more G2) / naphthyl / anthracenyl / (Specifically claimed: Me / Et)
G2 = R / alkyl <containing 1-34 C> / alkoxy <containing 1-34 C>
Patent location: claim 1
Note: also includes broader disclosure

MSTR 3



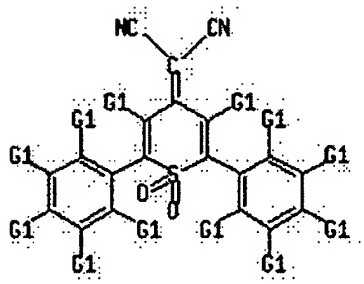
G1 = alkyl (opt. substd.) / alkoxy (opt. substd.) / aryl (opt. substd.) / cycloalkyl (opt. substd.) / halo / Ph / naphthyl / anthracenyl / (Specifically claimed: Me / Et)

G2 = alkyl (opt. substd.) / alkoxy (opt. substd.) / aryl (opt. substd.) / cycloalkyl (opt. substd.) / halo / Ph / naphthyl / anthracenyl / (Specifically claimed: Me / Et)

G3 = alkyl (opt. substd.) / alkoxy (opt. substd.) / cycloalkyl (opt. substd.) / aryl (opt. substd.) / Ph / naphthyl / anthracenyl / (Specifically claimed: Me / Et)

Patent location: claim 1
Note: substitution is restricted
Note: also includes broader disclosure

MSTR 4

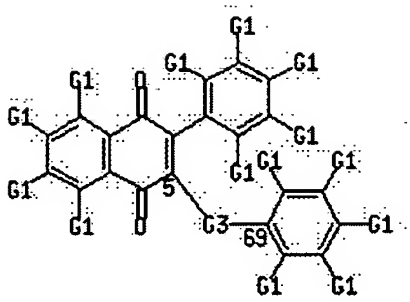


G1 = H / alkyl (opt. substd.) / alkoxy / aryl (opt. substd.) / halo / Ph (opt. substd. by 1 or more G2) / naphthyl / anthracenyl / (Specifically claimed: Me / Et)

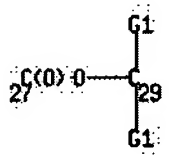
G2 = alkyl <containing 1-34 C> / alkoxy <containing 1-34 C> / alkoxy <containing 1 or more C> (opt. substd.)

Patent location: claim 1
Note: also includes broader disclosure

MSTR 5

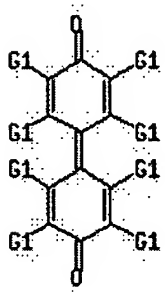


G1 = H / alkyl (opt. substd.) / alkoxy (opt. substd.) / aryl (opt. substd.) / halo / Ph (opt. substd. by 1 or more G2) / naphthyl / anthracenyl / (Specifically claimed: Me / Et)
G2 = alkyl <containing 1 or more C> (opt. substd.)
G3 = 27-5 29-69 / C(O)



Patent location: claim 1
Note: also includes broader disclosure

MSTR 6



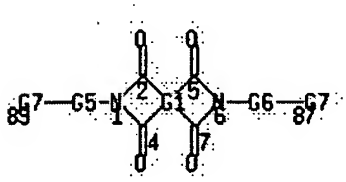
G1 = H / alkyl (opt. substd.) / alkoxy (opt. substd.) / halo / aryl (opt. substd.) / Ph (opt. substd. by 1 or more G2) / (Specifically claimed: Me / Et)
G2 = alkyl <containing 1 or more C> / alkoxy <containing 1 or more C>
Patent location: claim 1
Note: also includes broader disclosure

L3 ANSWER 5 OF 10 MARPAT COPYRIGHT 2005 ACS on STN
Full Text
AN 140:431125 MARPAT
TI Bisimide derivatives bearing bisarylamino groups, their preparation, and hole-transporting materials, green-emitting phosphors, and organic electroluminescent device
IN Fukuoka, Naohiko; Tagami, Sanae; Fujiwara, Toru; Shionoya, Hidehiko

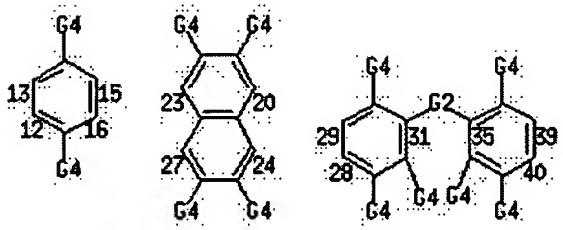
PA Chemipro Kasei Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 52 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2004143044	A2	20040520	JP 2002-306249	20021021
PRAI JP 2002-306249	20021021			

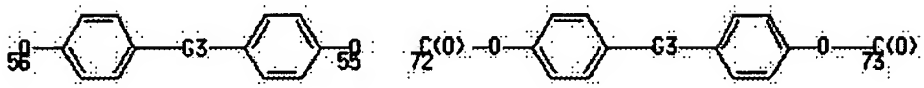
MSTR 1



G1 = 13-2 12-4 15-5 16-7 / **23-2 27-4 20-5 24-7** /
29-2 28-4 39-5 40-7



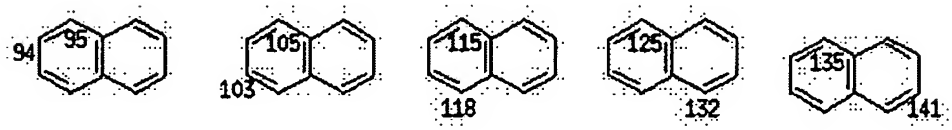
G2 = bond / O / C(O) / SO2 / S / alkylidene /
56-31 55-35 / 72-31 73-35

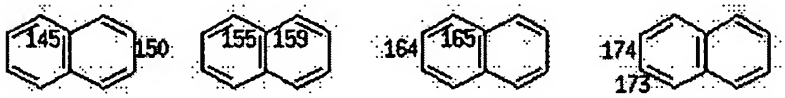


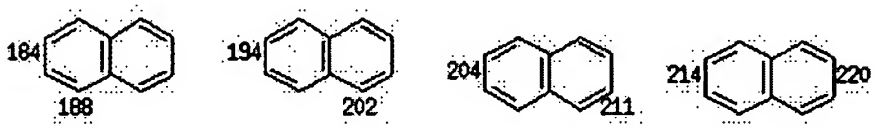
G3 = alkylidene / (Example: 412)

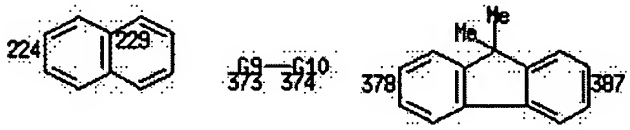
G4 = H / alkyl / cycloalkyl / alkoxy / cycloalkyloxy /
aryl (opt. substd.) / F / Cl / Br / I
G5 = arylene (opt. substd.) /
(Specifically claimed: phenylene / 95-89 94-1 /
105-89 103-1 / **115-89 118-1** / 125-89 132-1 /
135-89 141-1 / 145-89 150-1 / 155-89 159-1 /
164-89 165-1 / 174-89 173-1 / 184-89 188-1 /
194-89 202-1 / 204-89 211-1 / 214-89 220-1 /
224-89 229-1 / 373-89 374-1 /

carbocycle <containing 13 C, aromatic, 12 normalized bonds,
no double bonds, tricyclic, (1) 5-membered,
(2) 6-membered rings>) / (Example: 378-89 387-1)

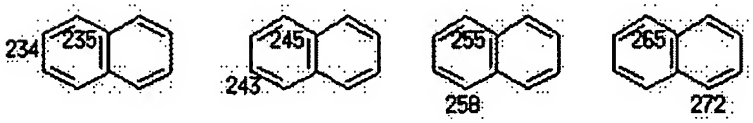


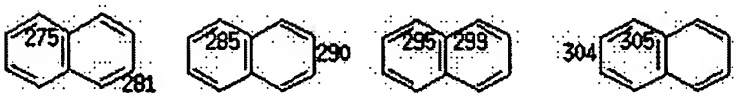


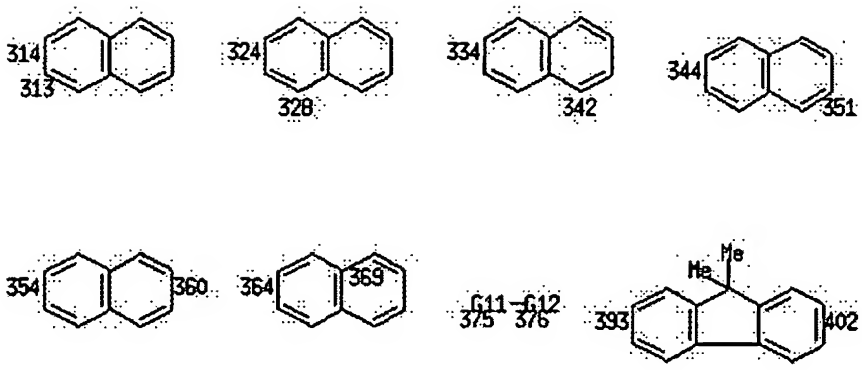




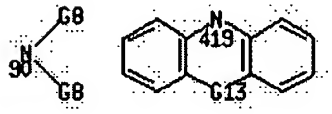
G6 = arylene (opt. substd.) /
(Specifically claimed: phenylene / **235-6 234-87** /
245-6 243-87 / 255-6 258-87 / 265-6 272-87 /
275-6 281-87 / 285-6 290-87 / 295-6 299-87 /
304-6 305-87 / 314-6 313-87 / 324-6 328-87 /
334-6 342-87 / 344-6 351-87 / 354-6 360-87 /
364-6 369-87 / 375-6 376-87 /
carbocycle <containing 13 C, aromatic, 12 normalized bonds,
no double bonds, tricyclic, (1) 5-membered,
(2) 6-membered rings>) / (Example: 393-6 402-87)



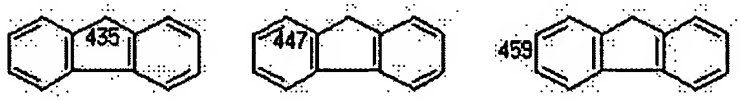


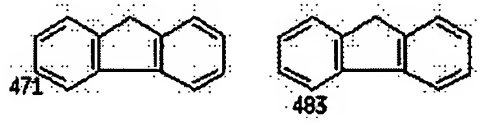


G7 = 90 / heterocycle <containing 1 or more N, attached through 1 or more N> / (Example: 419)



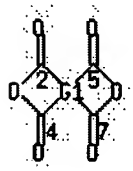
G8 = aryl (opt. substd.) / (Examples: 435 / 447 / 459 / 471 / 483)





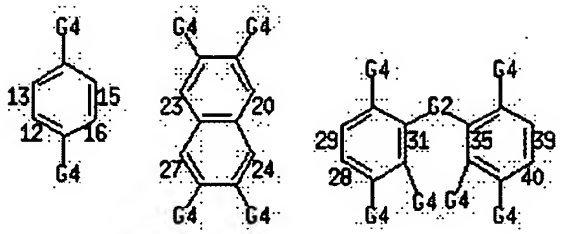
G9 = phenylene
G10 = phenylene
G11 = phenylene
G12 = phenylene
G13 = bond / CH2CH2 / CH=CH / S / O
Patent location: claim 1
Note: additional substitution also claimed

MSTR 2

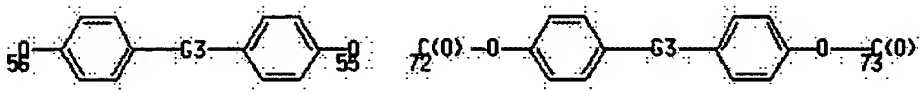


G1 = 13-2 12-4 15-5 16-7 / 23-2 27-4 20-5 24-7 /

29-2 28-4 39-5 40-7



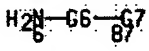
G2 = bond / O / C(O) / SO2 / S / alkylidene /
56-31 55-35 / 72-31 73-35



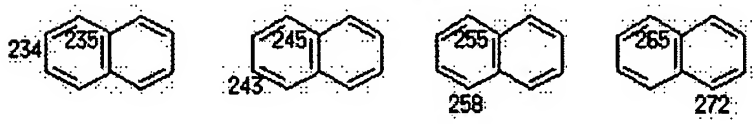
G3 = alkylidene / (Example: 412)

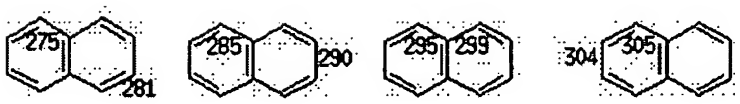
G4 = H / alkyl / cycloalkyl / alkoxy / cycloalkyloxy /
aryl (opt. substd.) / F / Cl / Br / I
Patent location: claim 5

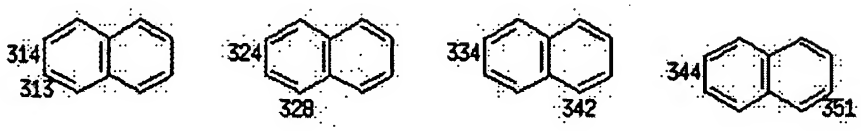
MSTR 3

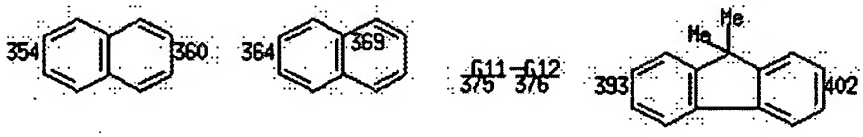


G6 = arylene (opt. substd.) /
(Specifically claimed: phenylene / 235-6 234-87 /
245-6 243-87 / 255-6 258-87 / 265-6 272-87 /
275-6 281-87 / 285-6 290-87 / 295-6 299-87 /
304-6 305-87 / 314-6 313-87 / 324-6 328-87 /
334-6 342-87 / 344-6 351-87 / 354-6 360-87 /
364-6 369-87 / 375-6 376-87 /
carbocycle <containing 13 C, aromatic, 12 normalized bonds,
no double bonds, tricyclic, (1) 5-membered,
(2) 6-membered rings>) / (Example: 393-6 402-87)

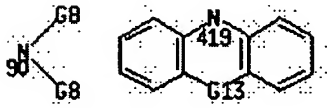




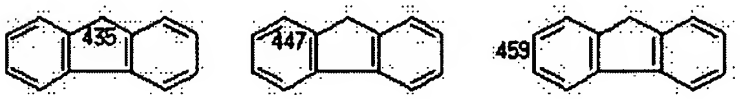


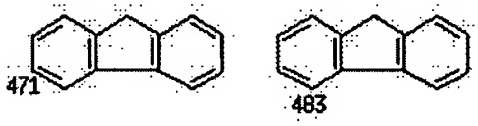


G7 = 90 / heterocycle <containing 1 or more N, attached through 1 or more N> / (Example: 419)



G8 = aryl (opt. substd.) / (Examples: 435 / 447 / 459 / 471 / 483)





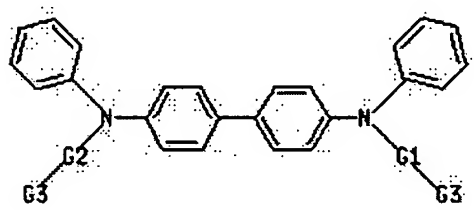
G11 = phenylene
G12 = phenylene
G13 = bond / CH2CH2 / CH=CH / S / O
Patent location: claim 5
Note: additional substitution also claimed

L3 ANSWER 6 OF 10 MARPAT COPYRIGHT 2005 ACS on STN
Full Text
AN 140:311897 MARPAT
TI Electrophotographic photoconductor
IN Lin, Liang-Bih; Scharfe, Merlin E.; Hammond, Harold F.; Chen, Cindy C.; Nealey, Richard H.; Ioannidis, Andronique; Melnyk, Andrew R.; Dinh,

Kenny-Tuan T.
PA Xerox Corporation, USA
SO U.S. Pat. Appl. Publ., 11 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

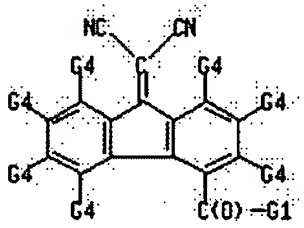
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004063011	A1	20040401	US 2002-253826	20020924
	JP 2004118195	A2	20040415	JP 2003-332410	20030924
PRAI	US 2002-253826	20020924			

MSTR 1

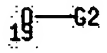


G1 = phenylene
G2 = phenylene
G3 = alkyl / halo / (Specifically claimed: Me / Cl)
Patent location: claim 11

MSTR 2



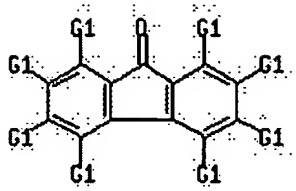
G1 = OH / 19



G2 = alkyl <containing 1-40 C> / alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more G3) / naphthyl / anthracenyl / aryl <containing 6-30 C> (opt. substd.) / halo
G3 = R / alkyl <containing 1-34 C> / alkoxy <containing 1-34 C>
G4 = H / alkyl <containing 1-40 C> / alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more G3) / naphthyl / anthracenyl / aryl <containing 6-30 C> (opt. substd.) / halo

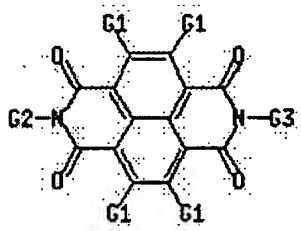
Patent location: claim 23

MSTR 3

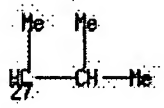


G1 = H / alkyl <containing 1-40 C> / alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more G2) / naphthyl / anthracenyl / aryl <containing 6-30 C> (opt. substd.) / halo / 2 or more NO2
G2 = R / alkyl <containing 1-34 C> / alkoxy <containing 1-34 C>
Patent location: claim 23

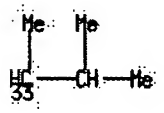
MSTR 4



G1 = alkyl (opt. substd.) / cycloalkyl (opt. substd.) / alkoxy (opt. substd.) / aryl / Ph / naphthyl / anthracenyl / halo
G2 = alkyl (opt. substd.) / cycloalkyl (opt. substd.) / alkoxy (opt. substd.) / aryl / Ph / **naphthyl** / anthracenyl / (Specifically claimed: tolyl / 27)

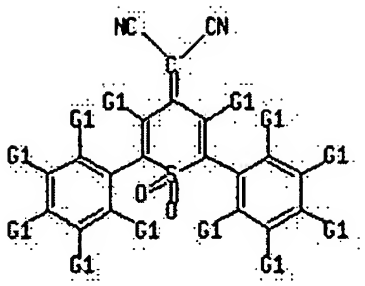


G3 = alkyl (opt. substd.) / cycloalkyl (opt. substd.) / aryl / Ph / **naphthyl** / anthracenyl / (Specifically claimed: tolyl / 33)



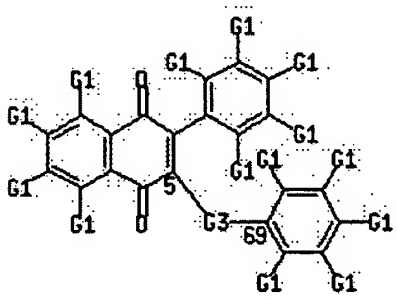
Patent location: claim 23
Note: substitution is restricted

MSTR 5

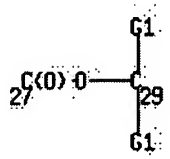


G1 = H / alkyl <containing 1-40 C> / alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more G2) / naphthyl / anthracenyl / aryl <containing 6-30 C> (opt. substd.) / halo
G2 = R / alkyl <containing 1-34 C> / alkoxy <containing 1-34 C>
Patent location: claim 23

MSTR 6

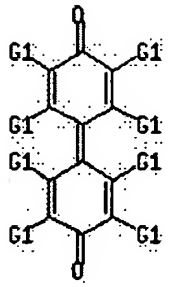


G1 = H / alkyl <containing 1-40 C> / alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more G2) / naphthyl / anthracenyl / aryl <containing 6-30 C> (opt. substd.) / halo
G2 = R / alkyl <containing 1-34 C> / alkoxy <containing 1-34 C>
G3 = 27-5 29-69 / C(O)



Patent location: claim 23

MSTR 7



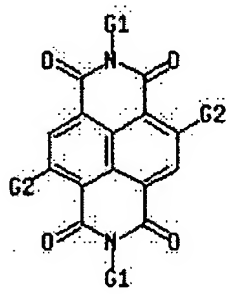
G1 = H / alkyl <containing 1-40 C> / alkoxy <containing 1-40 C> / Ph (opt. substd. by 1 or more G2) / naphthyl / anthracenyl / aryl <containing 6-30 C> (opt. substd.) / halo
G2 = R / alkyl <containing 1-34 C> / alkoxy <containing 1-34 C>
Patent location: claim 23

L3 ANSWER 7 OF 10 MARPAT COPYRIGHT 2005 ACS on STN
Full Text
AN 138:305532 MARPAT
TI Fluorescent naphthalene-1,4,5,8-tetracarboxylic diimides with electron-donating substituents at the core, their production and their use
IN Wuerthner, Frank; Thalacker, Christoph; Schmid, Guenter
PA Infineon Technologies AG, Germany
SO Ger. Offen., 10 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10148172	A1	20030417	DE 2001-10148172	20010928
	US 2003153005	A1	20030814	US 2002-254470	20020925

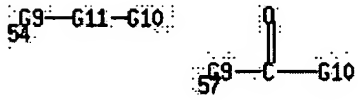
PRAI DE 2001-10148172 20010928
OS CASREACT 138:305532

MSTR 1

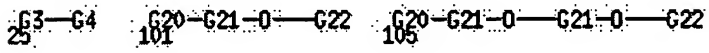


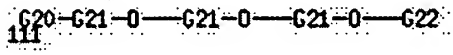
G1 = H / alkyl (opt. substd. by 1 or more G8) / aryl (opt. substd.) / (Specifically claimed: 54 / 57 / cycloalkyl <containing 3-8 C> / heterocycle <containing 3-8 atoms, zero or more N, zero or more O, zero or more S (no other heteroatoms),

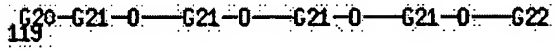
3- to 8-membered monocyclic ring> (opt. substd. by G13) /
Ph (opt. substd. by 1 or more G14) /
naphthyl (opt. substd. by 1 or more G14) /
heteroaryl (opt. substd. by 1 or more G14) / Bu-t)



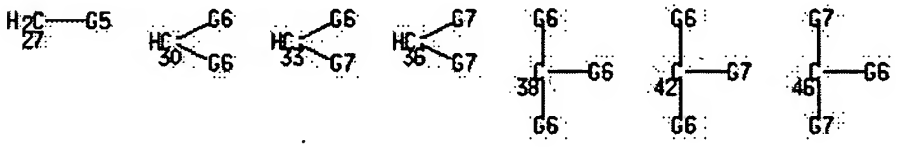
G2 = H / halo / NH2 / 25 / (Specifically claimed:
alkylamino <containing 1-20 C> (opt. substd. by 1 or more
G19) / alkoxy <containing 1-20 C>
(opt. substd. by 1 or more G19) / 101 / 105 / 111 / 119 /
Cl / Br)

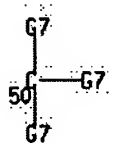






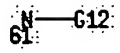
G3 = NH / O
G4 = 27 / 30 / 33 / 36 / 38 / 42 / 46 / 50



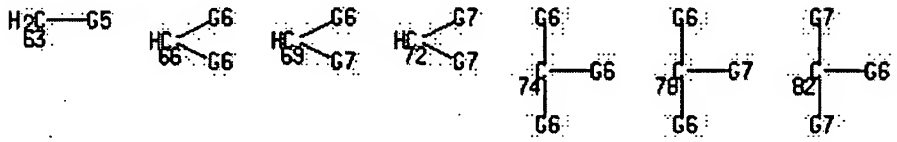


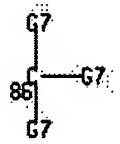
G5 = H / alkyl (opt. substd.) / aryl / alkoxy /
alkylthio / aryloxy / arylthio
G6 = H / aryl / alkoxy / alkylthio / aryloxy / arylthio
G7 = alkyl (opt. substd.)
G8 = CO2H / SO3H / OH / CN / alkoxy <containing 1-6 C> /
heterocycle <containing 1 or more N,
attached through 1 or more N, 5- to 7-membered monocyclic
ring> (opt. substd.)
G9 = alkylene <containing 1-28 C>
(opt. substd. by 1 or more G8)

G10 = alkyl <containing 1-28 C>
(opt. substd. by 1 or more G8)
G11 = O / S / NH / 61

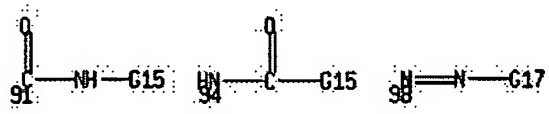


G12 = alkyl <containing 1-6 C>
G13 = 63 / 66 / 69 / 72 / 74 / 78 / 82 / 86





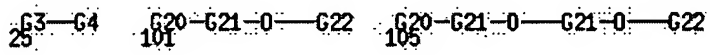
G14 = alkyl <containing 1-4 C> / OMe /
alkyl <containing 5-18 C> / alkoxy <containing 2-6 C> /
halo / OH / CN / CO2H / CONH2 / NHCHO / 91 / 94 / 98

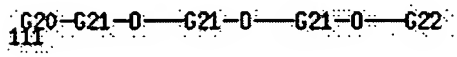


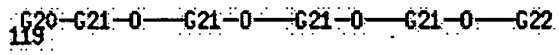
G15 = alkyl <containing 1-18 C> /
aryl (opt. substd. by 1 or more G16) /
heteroaryl (opt. substd. by 1 or more G16)
G16 = alkyl <containing 1-6 C> /
alkoxy <containing 1-6 C> / halo / OH / CN
G17 = aryl (opt. substd. by 1 or more G18) /
heteroaryl (opt. substd. by 1 or more G18)
G18 = alkyl <containing 1-10 C> /
alkoxy <containing 1-6 C> / halo / OH / CN / CO2H
G19 = OH / CO2H / NH2 / alkylamino / dialkylamino / SO3H
G20 = O / NH
G21 = alkylene <containing 1 or more C>
(opt. substd. by 1 or more G19)
G22 = alkyl <containing 1 or more C>
(opt. substd. by 1 or more G19)
Patent location: claim 1
Note: also incorporates claim 8, structures 2a and 2b

MSTR 2

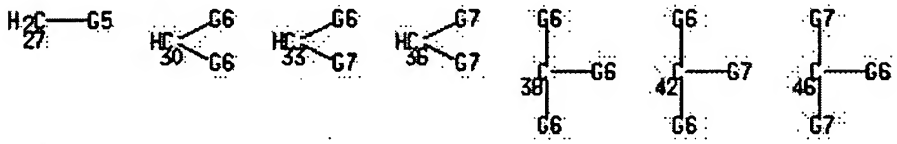
G2 = H / halo / NH2 / 25 / (Specifically claimed: alkylamino <containing 1-20 C> (opt. substd. by 1 or more G19) / alkoxy <containing 1-20 C> (opt. substd. by 1 or more G19) / 101 / 105 / 111 / 119 / Cl / Br)

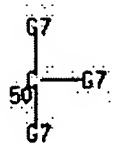






G3 = NH / O
G4 = 27 / 30 / 33 / 36 / 38 / 42 / 46 / 50





G5 = H / alkyl (opt. substd.) / aryl / alkoxy / alkylthio / aryloxy / arylthio
G6 = H / aryl / alkoxy / alkylthio / aryloxy / arylthio
G7 = alkyl (opt. substd.)
G19 = OH / CO2H / NH2 / alkylamino / dialkylamino / SO3H
G20 = O / NH
G21 = alkylene <containing 1 or more C> (opt. substd. by 1 or more G19)
G22 = alkyl <containing 1 or more C> (opt. substd. by 1 or more G19)
Patent location: claim 8

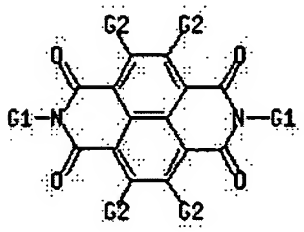
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 10 MARPAT COPYRIGHT 2005 ACS on STN
Full Text
AN 129:87831 MARPAT

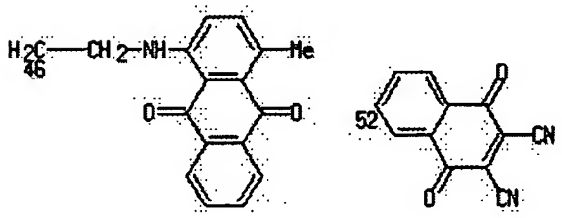
TI Optical modulator by transient absorption
IN Tanaka, Norio; Takarada, Shigeru; Yagimoto, Hiromitsu; Tsujita, Koji; Ueno, Ichiro
PA Dainippon Color and Chemicals Manufacturing Co., Ltd., Japan; Victor Co. of Japan, Ltd.
SO Jpn. Kokai Tokkyo Koho, 50 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

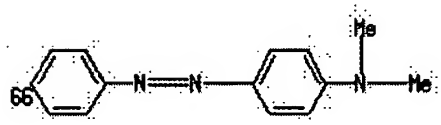
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10148853	A2	19980602	JP 1996-306707	19961118
	JP 3471181	B2	20031125		
PRAI	JP 1996-306707		19961118		

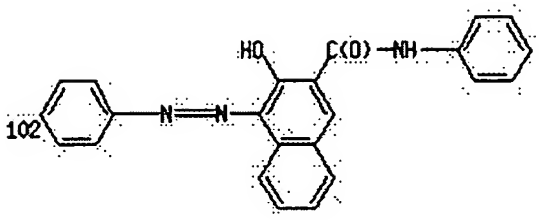
MSTR 1

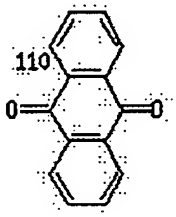


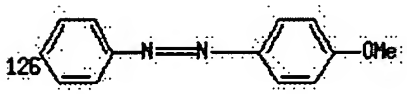
G1 = H / OH / NH2 (opt. substd.) /
R <"monovalent substituent", containing zero or more heteroatoms, zero or more Si, zero or more Ge, zero or more Sn, zero or more Pb, zero or more C> /
(Examples: 46 / 52 / 66 / 102 / **110** / dodecyl / 126 / 160 / 178 / 164)

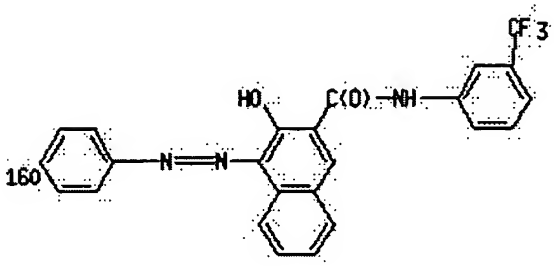


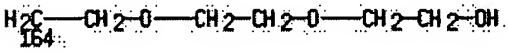


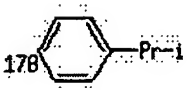






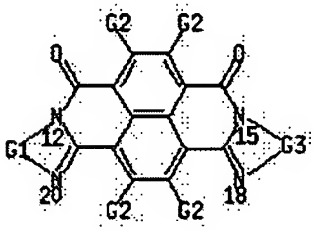




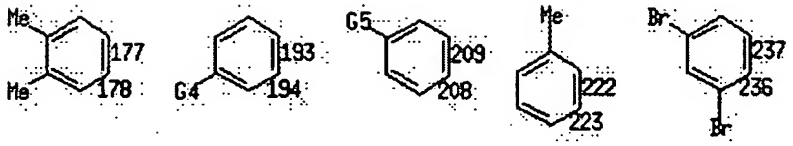


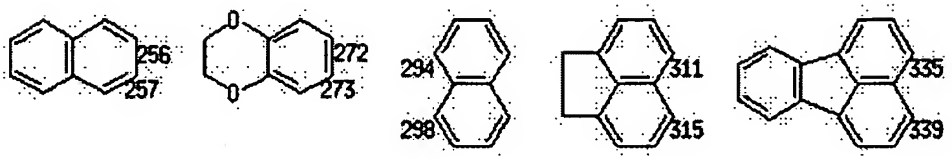
G2 = H / R <"monovalent substituent">
Patent location: claim 1
Note: G2 groups may form a ring

MSTR 2

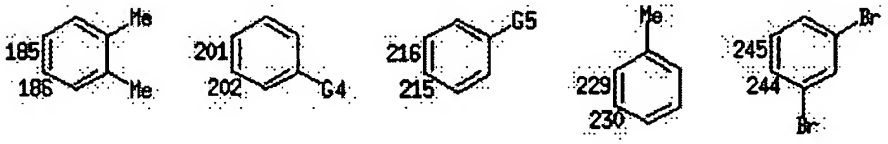


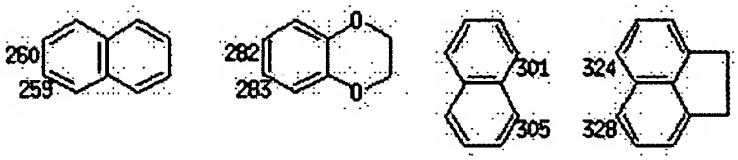
G1 = R <"residue to form optionally substituted heterocycle"> / (Examples: 177-12 178-20 / 193-12 194-20 / 209-12 208-20 / 222-12 223-20 / 237-12 236-20 / 256-12 257-20 / 272-12 273-20 / 294-12 298-20 / 311-12 315-20 / 335-12 339-20)

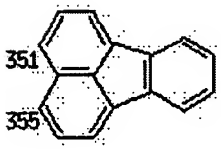




G2 = H / R <"monovalent substituent">
G3 = R <"residue to form optionally substituted heterocycle"> / (Examples: 185-15 186-18 / 201-15 202-18 / 216-15 215-18 / 229-15 230-18 / 245-15 244-18 / 260-15 259-18 / 282-15 283-18 / 301-15 305-18 / 324-15 328-18 / 351-15 355-18)

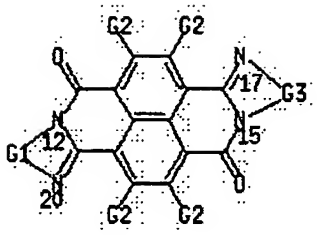




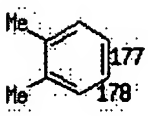


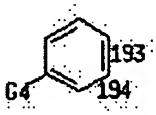
G4 = OMe / Me / H / OEt
G5 = OMe / Cl / NO2
Patent location: claim 1
Note: G2 groups may form a ring

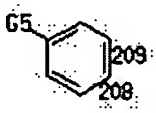
MSTR 3

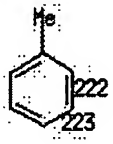


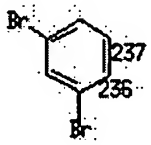
G1 = R <"residue to form optionally substituted heterocycle"> / (Examples: 177-12 178-20 / 193-12 194-20 / 209-12 208-20 / 222-12 223-20 / 237-12 236-20 / 256-12 257-20 / 272-12 273-20 / 294-12 298-20 / 311-12 315-20 / 335-12 339-20)

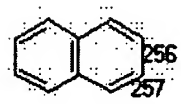


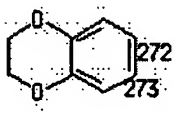


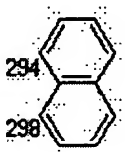


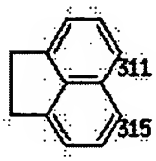


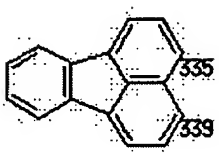






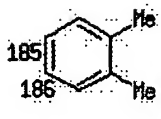


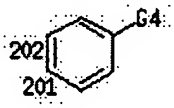


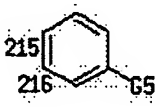


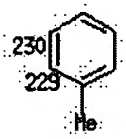
G2 = H / R <"monovalent substituent">

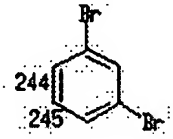
G3 = R <"residue to form optionally substituted heterocycle"> / (Examples: 185-17 186-15 / 202-17 201-15 / 215-17 216-15 / 230-17 229-15 / 244-17 245-15 / 260-17 259-15 / 282-17 283-15 / 301-17 305-15 / 324-17 328-15 / 351-17 355-15)

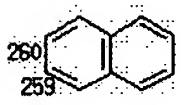


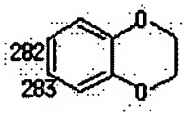


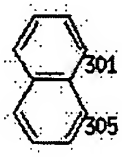


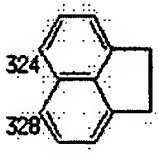


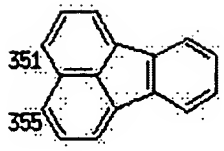






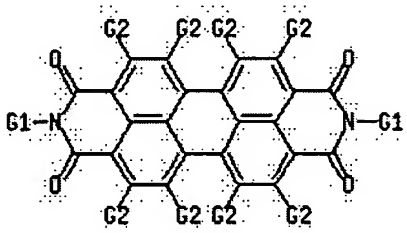




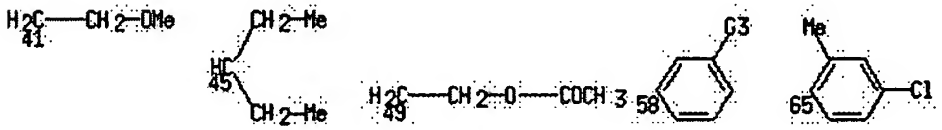


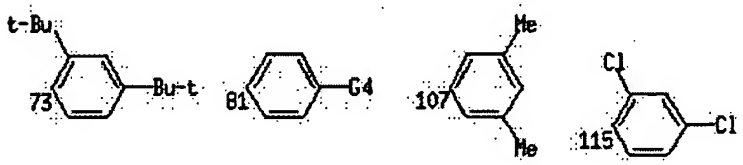
G4 = OMe / Me / H / OEt
G5 = OMe / Cl / NO2
Patent location: claim 1
Note: G2 groups may form a ring

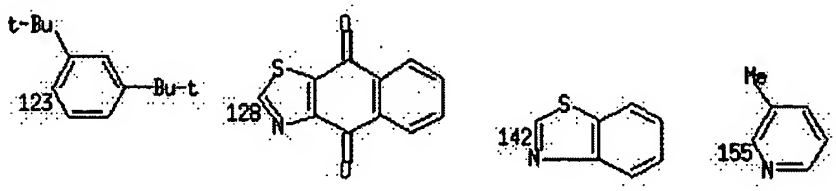
MSTR 4

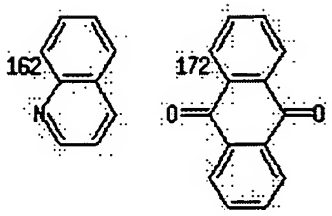


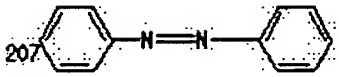
G1 = H / OH / NH2 (opt. substd.) /
R <"monovalent substituent", containing zero or more heteroatoms, zero or more Si, zero or more Ge, zero or more Sn, zero or more Pb, zero or more C> /
(Examples: Me / Et / 41 / 45 / cyclopentyl / cyclohexyl / heptyl / dodecyl / CH2Ph / CH2CH2Ph / 49 / Ph / 58 / 65 / 73 / 81 / 107 / 115 / 123 / 2-thiazolyl / 142 / 128 / 2-pyridyl / 4-pyridyl / 155 / 162 / 172 / 277 / 207 / 221 / 243 / 244 / 269)

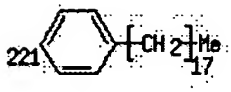


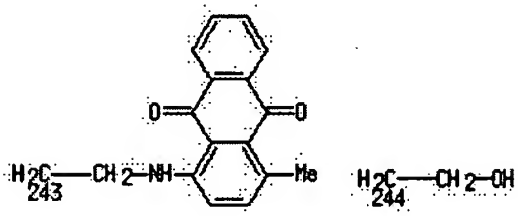


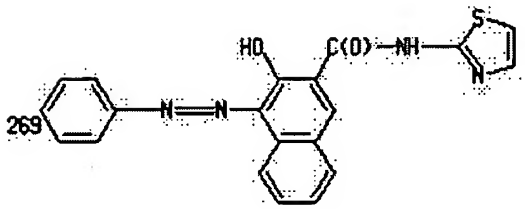


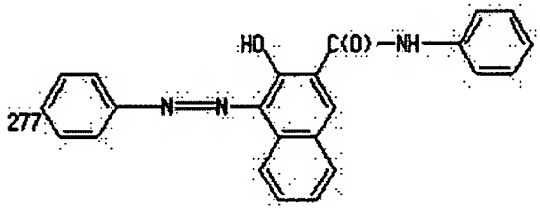




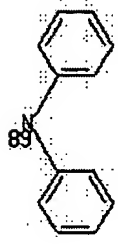






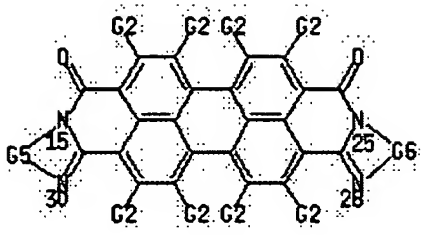


G2 = H / R <"monovalent substituent"> / (Examples: Cl / OMe / Br)
G3 = F / Cl / CF3
G4 = Cl / OMe / OEt / NMe2 / 89

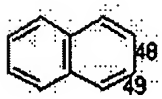


Patent location: claim 1
Note: G2 groups may form a ring

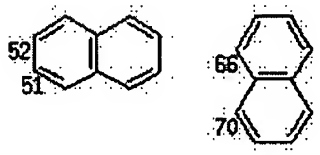
MSTR 5



G2 = H / R <"monovalent substituent"> / (Example: Cl)
G5 = R <"residue to form optionally substituted heterocycle"> / (Examples: CH2CH2 / o-C6H4 (opt. substd. by G7) / 48-15 49-30)

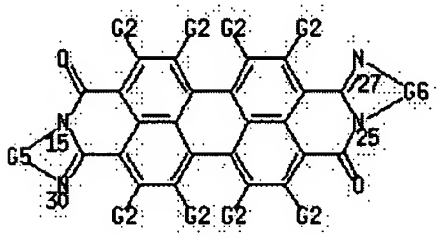


G6 = R <"residue to form optionally substituted heterocycle"> / (Examples: CH2CH2 / o-C6H4 (opt. substd. by G7) / 52-25 51-28 / 66-25 70-28)



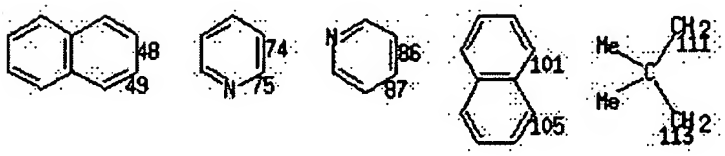
G7 = Me / Cl / OEt / NO2 / Br / Bu-t
Patent location: claim 1
Note: G2 groups may form a ring

MSTR 6

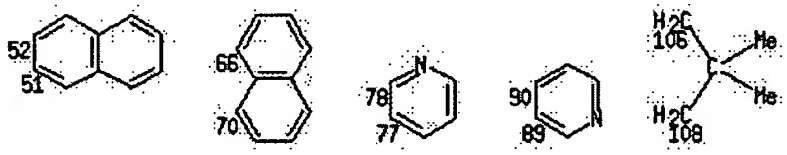


G2 = H / R <"monovalent substituent"> / (Example: Cl)
G5 = R <"residue to form optionally substituted heterocycle"> / (Examples: CH2CH2 /

o-C6H4 (opt. substd. by G7) / 48-15 49-30 / 74-15 75-30 /
86-15 87-30 / 101-15 105-30 / 111-15 113-30)

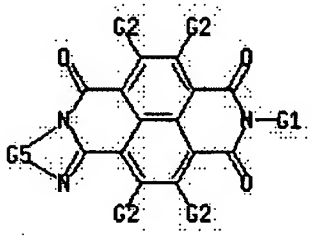


G6 = R <"residue to form optionally substituted
heterocycle"> / (Examples: CH2CH2 /
o-C6H4 (opt. substd. by G7) / 52-27 51-25 / 78-27 77-25 /
66-27 70-25 / 90-27 89-25 / 106-27 108-25)



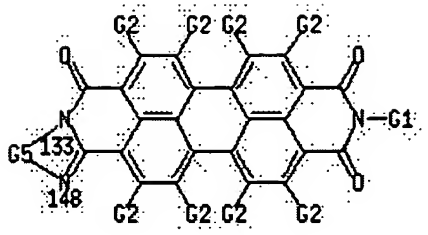
G7 = Me / Cl / OEt / NO2 / Br / Bu-t
Patent location: claim 1
Note: G2 groups may form a ring

MSTR 7A

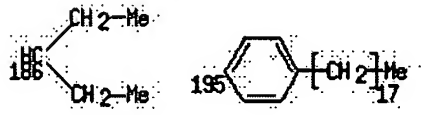


G1 = H / OH / NH2 (opt. substd.) /
R <"monovalent substituent", containing zero or more
heteroatoms, zero or more Si, zero or more Ge,
zero or more Sn, zero or more Pb, zero or more C>
G2 = H / R <"monovalent substituent">
G5 = R <"residue to form optionally substituted
heterocycle">
Patent location: claim 1
Note: G2 groups may form a ring

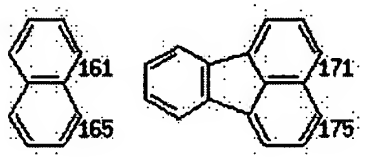
MSTR 7B



G1 = H / OH / NH2 (opt. substd.) /
R <"monovalent substituent", containing zero or more heteroatoms, zero or more Si, zero or more Ge, zero or more Sn, zero or more Pb, zero or more C> /
(Examples: Me / Et / 186 / decyl / 195 / CH2CH2Ph / cyclohexyl / dodecyl)



G2 = H / R <"monovalent substituent">
G5 = R <"residue to form optionally substituted heterocycle"> / (Examples: o-C6H4 (opt. substd. by G6) / 161-133 165-148 / 171-133 175-148)

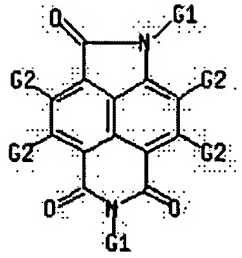


G6 = Me / Bu-t
Patent location: claim 1
Note: G2 groups may form a ring

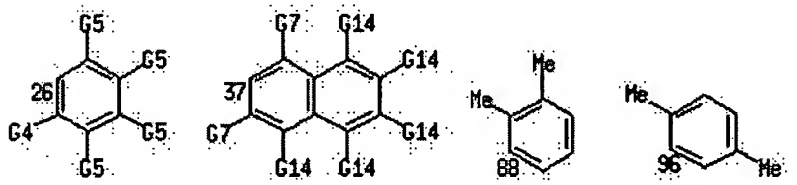
L3 ANSWER 9 OF 10 MARPAT COPYRIGHT 2005 ACS on STN
Full Text
AN 127:6135 MARPAT
TI Aminonaphthalenetricarboxylic lactam imide fluorescent dyes, their preparation and their use
IN Langhals, Heinz; Von Unold, Petra Christa
PA Ciba Specialty Chemicals Holding Inc., Switz.
SO Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

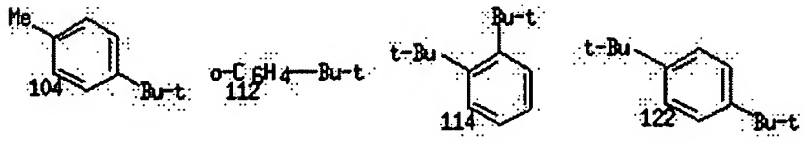
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 769532	A1	19970423	EP 1996-810656	19961002
	EP 769532	B1	20020313		
	R: CH, DE, FR, GB, IT, LI				
	CA 2187593	AA	19970413	CA 1996-2187593	19961010
	JP 09124960	A2	19970513	JP 1996-270158	19961011
	US 5886183	A	19990323	US 1996-729124	19961011
PRAI	CH 1995-2882		19951012		

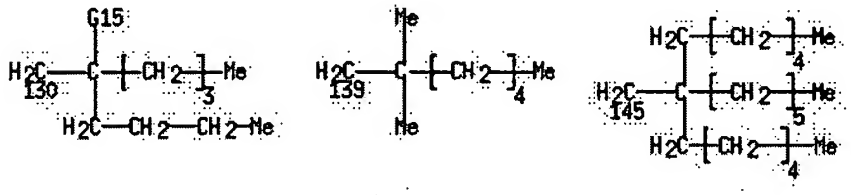
MSTR 1

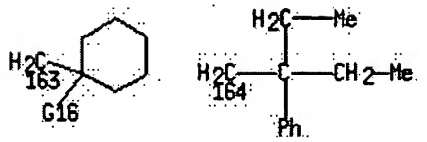


G1 = alkyl <containing 2-25 C>
(opt. substd. by 1 or more G3) /
cycloalkyl <containing 3-10 C> / 26 /
1-naphthyl (opt. substd. by 1 or more G6) / 37 /
(Specifically claimed: o-C6H4Me / 88 / 96 / 104 / 112 / 114 /
122 / Bu-s / 130 / 139 / 145 / 163 / 164)



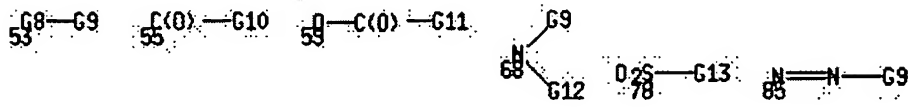




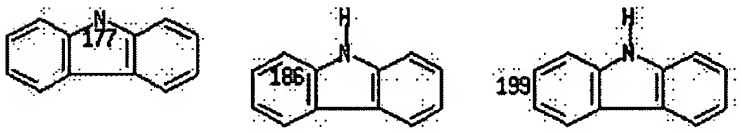


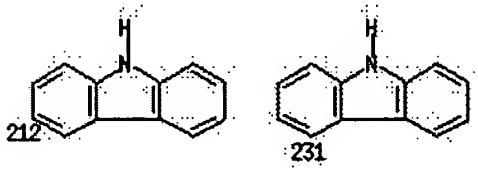
G2 = H / alkyl <containing 1-6 C> /
cycloalkyl <containing 3-6 C> / aryl <containing 6-10 C> /

halo / CN / NO2 / 53 / 55 / 59 / 68 / 78 / 85 /
(Specifically claimed: Me / Ph / Cl) / (Examples: Br / F)

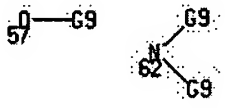


G3 = halo / aryl <containing 6-10 C> / heteroaryl /
cycloalkyl <containing 3-10 C> / (Specifically claimed: Ph) /
(Examples: Br / F / Cl / furyl / thienyl / pyrrolyl /
imidazolyl / pyrazolyl / isothiazolyl / isoxazolyl /
pyridyl / pyrazinyl / pyrimidinyl / indolyl / isoindolyl /
indazolyl / quinolinyl / isoquinolinyl / quinazolinyl / 177 /
186 / 199 / 212 / 231)





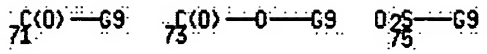
G4 = halo / alkyl <containing 1-12 C> / Ph / tolyl /
(Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
G5 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl /
(Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
G6 = halo / alkyl <containing 1-12 C> / Ph / tolyl /
(Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
G7 = (up to 1) H / halo / alkyl <containing 1-12 C> /
Ph / tolyl / (Examples: Br / F / Cl)
G8 = O / C(O) / SO2
G9 = alkyl <containing 1-4 C> / Ph / p-C6H4Me
G10 = 57 / 62



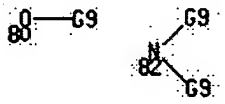
G11 = alkyl <containing 1-4 C> / Ph / p-C6H4Me / 65

G12 = alkyl <containing 1-4 C> / Ph / p-C6H4Me / 71 / 73 /

75

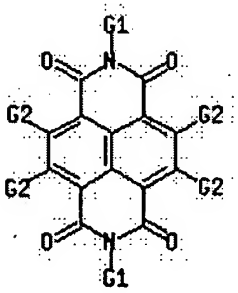


G13 = 80 / 82

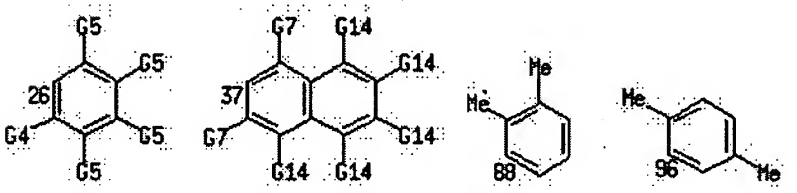


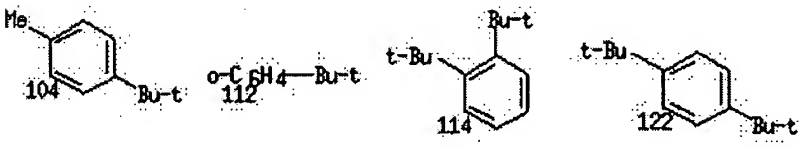
G14 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl /
(Examples: Br / F / Cl)
G15 = Me / Ph
G16 = Et / Pr-n
Patent location: claim 1

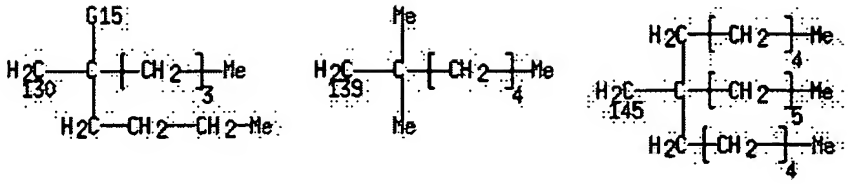
MSTR 2

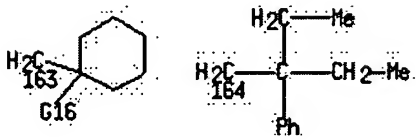


G1 = alkyl <containing 2-25 C>
(opt. substd. by 1 or more G3) /
cycloalkyl <containing 3-10 C> / 26 /
1-naphthyl (opt. substd. by 1 or more G6) / 37 /
(Specifically claimed: o-C6H4Me / 88 / 96 / 104 / 112 / 114 /
122 / Bu-s / 130 / 139 / 145 / 163 / 164)

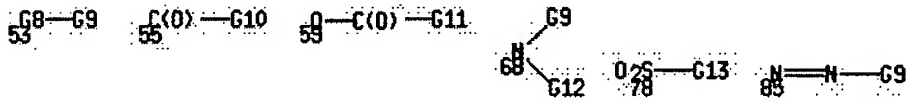




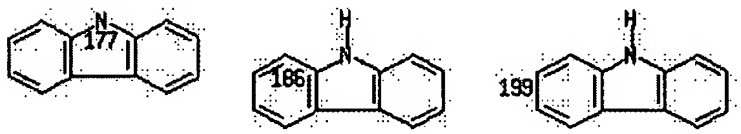


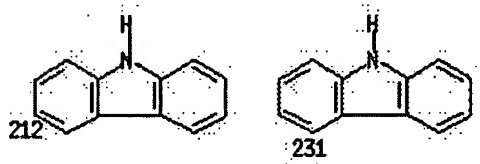


G2 = H / alkyl <containing 1-6 C> / cycloalkyl <containing 3-6 C> / aryl <containing 6-10 C> / halo / CN / NO2 / 53 / 55 / 59 / 68 / 78 / 85 / (Specifically claimed: Me / Ph / Cl) / (Examples: Br / F)



G3 = halo / aryl <containing 6-10 C> / heteroaryl / cycloalkyl <containing 3-10 C> / (Specifically claimed: Ph) / (Examples: Br / F / Cl / furyl / thienyl / pyrrolyl / imidazolyl / pyrazolyl / isothiazolyl / isoxazolyl / pyridyl / pyrazinyl / pyrimidinyl / indolyl / isoindolyl / indazolyl / quinolinyl / isoquinolinyl / quinazolinyl / 177 / 186 / 199 / 212 / 231)



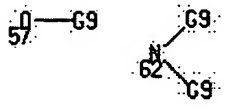


G4 = halo / alkyl <containing 1-12 C> / Ph / tolyl / (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)

G5 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl / (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)

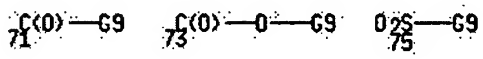
G6 = halo / alkyl <containing 1-12 C> / Ph / tolyl / (Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)

G7 = (up to 1) H / halo / alkyl <containing 1-12 C> / Ph / tolyl / (Examples: Br / F / Cl)
G8 = O / C(O) / SO2
G9 = alkyl <containing 1-4 C> / Ph / p-C6H4Me
G10 = 57 / 62

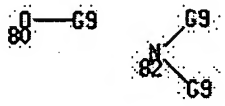


G11 = alkyl <containing 1-4 C> / Ph / p-C6H4Me / 65

G12 = alkyl <containing 1-4 C> / Ph / p-C6H4Me / 71 / 73 / 75

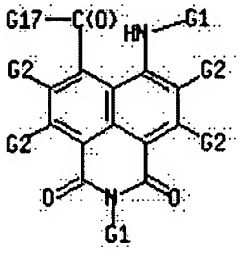


G13 = 80 / 82



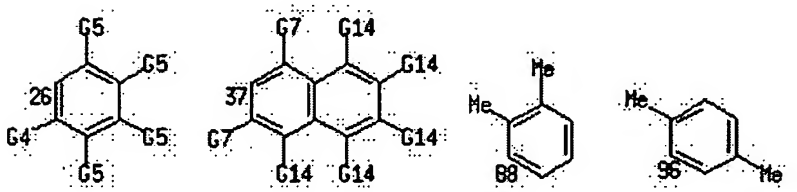
G14 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl / (Examples: Br / F / Cl)
G15 = Me / Ph
G16 = Et / Pr-n
Patent location: claim 8
Note: both G1 groups cannot be ethyl or decyl

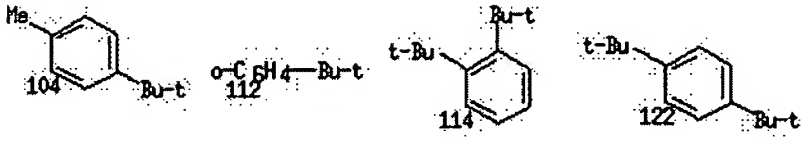
MSTR 3

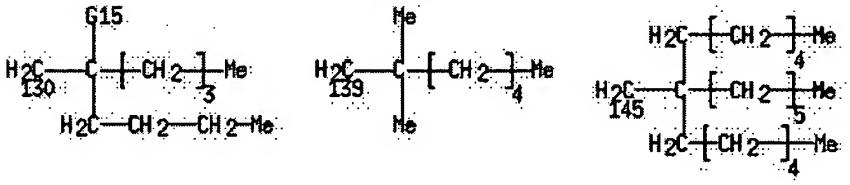


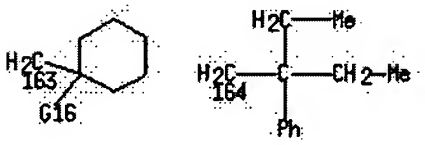
G1 = alkyl <containing 2-25 C> (opt. substd. by 1 or more G3) / cycloalkyl <containing 3-10 C> / 26 /

1-naphthyl (opt. substd. by 1 or more G6) / 37 /
(Specifically claimed: o-C6H4Me / 88 / 96 / 104 / 112 / 114 /
122 / Bu-s / 130 / 139 / 145 / 163 / 164)

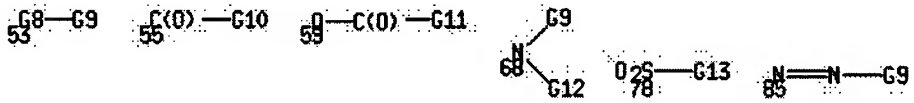




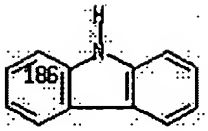


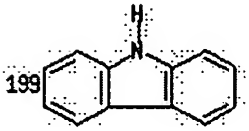


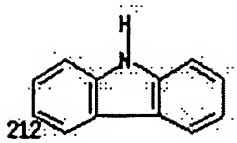
G2 = H / alkyl <containing 1-6 C> /
cycloalkyl <containing 3-6 C> / aryl <containing 6-10 C> /
halo / CN / NO2 / 53 / 55 / 59 / 68 / 78 / 85 /
(Specifically claimed: Me / Ph / Cl) / (Examples: Br / F)

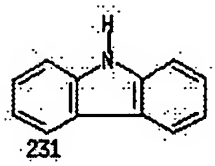


G3 = halo / aryl <containing 6-10 C> / heteroaryl /
cycloalkyl <containing 3-10 C> / (Specifically claimed: Ph) /
(Examples: Br / F / Cl / furyl / thienyl / pyrrolyl /
imidazolyl / pyrazolyl / isothiazolyl / isoxazolyl /
pyridyl / pyrazinyl / pyrimidinyl / indolyl / isoindolyl /
indazolyl / quinolinyl / isoquinolinyl / quinazolinyl / 177 /
186 / 199 / 212 / 231)

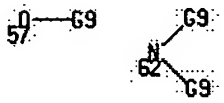






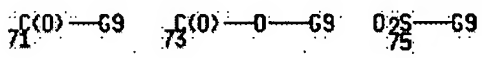


G4 = halo / alkyl <containing 1-12 C> / Ph / tolyl /
(Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
G5 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl /
(Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
G6 = halo / alkyl <containing 1-12 C> / Ph / tolyl /
(Specifically claimed: Me / Bu-t) / (Examples: Br / F / Cl)
G7 = (up to 1) H / halo / alkyl <containing 1-12 C> /
Ph / tolyl / (Examples: Br / F / Cl)
G8 = O / C(O) / SO2
G9 = alkyl <containing 1-4 C> / Ph / p-C6H4Me
G10 = 57 / 62

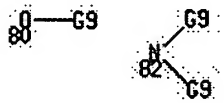


G11 = alkyl <containing 1-4 C> / Ph / p-C6H4Me / 65

G12 = alkyl <containing 1-4 C> / Ph / p-C6H4Me / 71 / 73 /
75



G13 = 80 / 82



G14 = H / halo / alkyl <containing 1-12 C> / Ph / tolyl /
(Examples: Br / F / Cl)
G15 = Me / Ph
G16 = Et / Pr-n

G17 = OH / 241

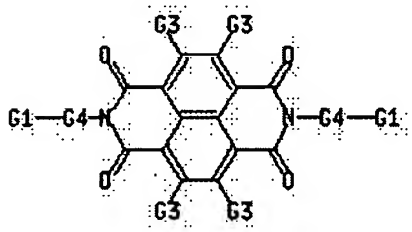
G18 = alkali metal atom
Patent location: claim 9

L3 ANSWER 10 OF 10 MARPAT COPYRIGHT 2005 ACS on STN
Full Text
AN 116:117115 MARPAT
TI Cyclic bis-dicarboximide charge-transport compounds for electrophotography
IN Chen, Chin H.; Hung, Yann
PA Eastman Kodak Co., USA
SO U.S., 9 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

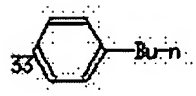
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4992349	A	19910212	US 1989-432018	19891106

PRAI US 1989-432018 19891106

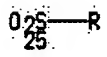
MSTR 1



G1 = aryl (opt. substd. by 1 or more G2) /
(Specifically claimed: 33) / (Examples: Ph (opt. substd.) /
naphthyl (opt. substd.))



G2 = alkyl <containing 2-20 C> /
alkoxy <containing 2-20 C> / perfluoroalkyl <containing 2-20 C> / perfluoroalkyloxy <containing 2-20 C> / 25 / SO3H / SO2NH2 / CN / NO2



G3 = H / alkyl <cohtaining 1-4 C> /
alkoxy <containing 1-4 C> / F / Cl / Br / I
G4 = (0-3) CH2

Patent location: claim 1

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	146.13	146.34

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.18	146.52

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